Telstra Cable Guide

BY PRYSMIAN AUSTRALIA PTY LTD





Linking the Future





Welcome to the 2024 edition of our Telstra Cable Guide

The Telstra guide was first published in 2005. Since then, we've been through some significant changes.

Our name changed from Pirelli to Prysmian, we acquired Draka and General Cable, and Prysmian Group has become the world's largest producer of power and telecommunication cables with 112 manufacturing plants, 25 research and development centres and 30,000 employees. We have a presence in more than 50 countries around the globe.

Prysmian has been Telstra's strategic optical and metallic cable partner since 1998 and over that time has made significant investments in the Australian production facility in Dee Why NSW. This includes a \$7M investment in 2022/2023 to double the loose tube capacity in Dee Why to support the roll out of the InterCity Project.

We are continually evolving our products and capabilities to maintain our leadership in telecom cables in the region. With comprehensive local manufacturing, product development, services and logistics backed by global strength, Prysmian is uniquely placed as Telstra's sole strategic supplier of cable. Telstra is one of only a small number of Prysmian's globally strategic customers.

Telstra and Australia's unique conditions drive many of the products we develop. Prysmian and Telstra developed High Strength - Enhanced (HSe) in the early 2000's, direct buried cable specifically for Australia's expansive soils. Our successful high fibre density cable, FlexTube®, has been tailored to Telstra's fibre counts and custom engineering requirements. More recently, Prysmian and Telstra have significantly enhanced the fibre used in the network by using very bend insensitive low loss fibres (BBA2-LL) and bend insensitive ultra-low loss (ULL-AB). These fibres have been packaged in a more sustainable HSe cable design.

We are committed to providing the necessary technical, installation, safety and practical information required by designers, installers and users of our products in a comprehensive handbook that can easily be used in the field. The most up to date version is always available on-line at www.prysmiancable.com.au/downloads

Please accept this latest edition of the Telstra Cable Guide with our compliments.

Prysmian Australia Pty Ltd proudly manufactures in Australia and operates certified management systems compliant with the requirements of;

ISO 9001:2015
Quality Management Systems
AS/NZS ISO 14001:2015
Environmental Management Systems
AS/NZS ISO 45001:2018
Occupational Health & Safety Management Systems









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CONNECTING THE WORLD. TODAY AND IN THE FUTURE





We specialise in underground and submarine cables and systems for power transmission and distribution, special cables for applications in many different industries, and medium and low voltage cables for the construction and infrastructure sectors.



For the telecommunications industry, the Group is the world's largest provider of cutting-edge cables and accessories for voice, video and data transmission, offering a comprehensive range of optical fibres, optical and copper cables and connectivity systems.



We are committed to environmental **responsibility** in our production processes, the protection of the global environment, and the responsible management of relations with the local communities in which we work.



For us, innovation means meeting the needs of our customers and communities. by understanding their business drivers as quickly as they do. To do that, our team of over 900 Research & Development professionals is constantly looking to the future, predicting and identifying emerging trends in each of our industries and sectors. Acting on this intelligence from 25 R&D centres around the world, we're constantly close to our customers in their own local markets.





Sustainability is in our DNA

Our commitment to a low-carbon future

Every day, we are committed to ensuring the sustainability of our production processes and to safeguarding the environment. We work alongside local communities to ensure that the areas in which we operate are protected and to quarantee workplace safety.

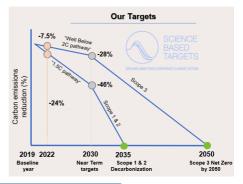
Our Climate Change Ambition seeks to position Prysmian Group as one of the main technological players in the transition to low-carbon energy. The climate strategy adopts "sciencebased" targets aligned with the Paris Agreement climate objectives. In particular, the Science Based Targets initiative (SBTi) defines the requirements for an effective Net-Zero strategy:

- reduction of Scope 1, 2 and 3
 emissions to zero, or at least to
 a residual level consistent with
 achieving the global or sector
 targets set in line with the Paris
 Agreement (1.5°C);
- neutralisation of any residual and GHG emissions released into the atmosphere.



As part of this initiative, Prysmian has taken the following actions:

- definition of a short-term emissions-reduction target;
- definition of a long-term emissionsreduction target;
- launch of projects for the neutralisation of residual emissions.



Our commitment

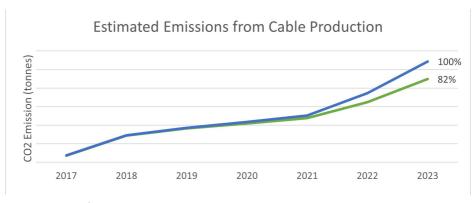
- **1 Decarbonize 90%** of our Scope 1 & 2 carbon footprint by 2035
 - phasing out SF₆ emissions
 - 100% renewable energy
- **Decarbonize 90%** of our Scope3 carbon footprint by 2050
- **3 Offset** the remaining emissions



Sustainability at a Local Level

Along with contributing to meet emissions targets laid out by Prysmian Group, Prysmian Australia and Telstra have achieved notable reductions in CO2 emissions through technology choices.

The 2017 to 2019 transition from Sm@rtcore™ cable designs to SingleSm@rt™, Sm@rtlink™ and Flextube® saw a significant reduction in CO2 emissions through raw material and cable production. As these enhanced cable designs used less material and were more efficient to make, there is a reduction in the CO2 footprint.

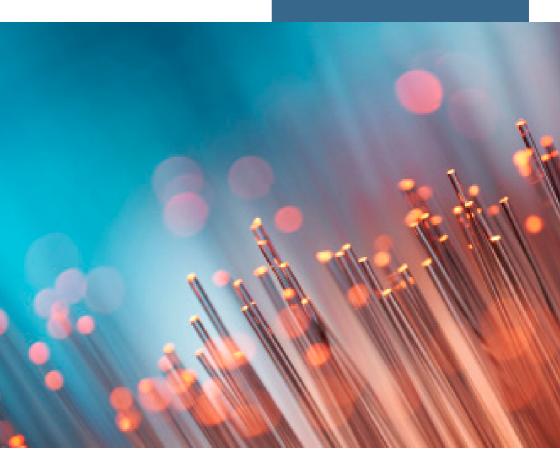


Telstra InfraCo's intercity fibre network build was also viewed through a sustainability lens. Changing the direct buried cable design from 12 fibres per tube to 24 fibres per tube significantly reduced the size, weight and CO2 impact of the cable. When this reduction is applied across the entire network, the savings are substantial.

It is estimated that there will be a reduction of almost 33,000 tonnes of CO2 emissions

Fibre Optic Cables

Note: Fibre characteristics detail included for each fibre optic cable described in this document is limited to stating relevant standards compliance (ITU-T and IEC). Further characteristics detail for fibre used in various cable types deployed by Telstra can be found in the Telstra InfraCo Optical Fibre Cable – Product Guide.



SingleSm@rt™ Duct Single Loose-Tube Cable

Single Loose-Tube optical fibre cables designed for installation in ducts. Cable is fully dielectric thus immune to electric shocks or magnetic interferences. The loose-tube contains 12 single mode fibres, laid parallel to a composite glass fibre reinforced plastic (GRP) strength member that provides longitudinal strength (tensile and compressive). The tube is filled with a low viscosity, non-melting gel that prevent the longitudinal passage of moisture along the tube. The cable core is protected from moisture permeation and water penetration by means of a dry water blocking system. Fach individual fibre is coloured within the tube for unambiguous identification. The cable is completed by the application of a co-extruded dual laver of polyethylene sheath with an integrally bonded nylon jacket for protection against termite attack with improved cable bending and durability.





Cable Information

Telstra Material Number	Prysmian Material Description	Number of Fibres	Nominal Weight (kg/km)		Min Bending Radius Full load (mm)	Overall Diameter (mm)	Standard Pack Length (m)	Stock/ MTO	Max Drum Length (m)	Max Hauling Tension (N)
40009913	CABLE, SM, DUCT BONDED, 12 FIBRE	12	50	90	200	7.7	5000	STOCK	12000	1200

Note: Overall diameter may vary from the above nominal values between +/- 0.7mm



12 FIBRE SINGLESM@RT™ - DUCT SINGLE LOOSE-TUBE CABLE

Cable description:

Cable containing 12 optical fibres in a single water blocked loose tube, laid parallel with a glass reinforced plastic (GRP) strength member, water blocked interstices, overall polyethylene sheathed and integrally bonded nylon jacket.

Construction details:

Number of elements:

Tube/fibre identification: Colour coded

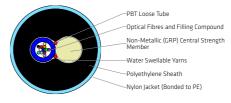
Strength member: Glass reinforced plastic (GRP)
Fibre protection: Polybutylene terephthalate (PBT)

Water blocking: Thixotropic gel (tube)

Water swellable yarns (interstices)

Sheath: Polyethylene (UV stabilised)
Jacket: Nylon (UV stabilised) - Blue

Cross sectional drawing:



Drawing not to scale

Dimensions and mass:	
Overall cable diameter (nominal):	7.7mm
Mass (nominal):	50kg/km

Fibre characteristics:

G.652.D - In compliance with ITU-T recommendation G.652.D and IEC 60793-2-50 Category B-652.D

Note: Other fibres are available upon request

Mechanical and environmental performance:									
Minimum bending radius - No load	90mm								
Minimum bending radius - Full load	200mm								
Maximum tensile strength – Short term	1200 N								
Maximum crush resistance – Short term	2000 N/10cm								
Maximum crush resistance – Long term	1000 N/10cm								
Operating temperature range: From -10°C to + 70°C									

	Optical fibre and tube colours:														
Fibre 1 Tube 1	Fibre 2	Fibre 3	Fibre 4	Fibre 5	Fibre 6	Fibre 7	Fibre 8	Fibre 9	Fibre 10	Fibre 11	Fibre 12				
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua				

Specifications: Telstra Optical Fibre Cable; AS/CA 5008 and IEC 60794 series Serial / Item number: 40009913

The information contained in this data sheet is subject to normal manufacturing tolerances. Specifications are subject to change within the terms and conditions of the relevant Contract/Agreement.



Sm@rtLink™ Duct Multi Loose-Tube Cable

Multi Loose-Tube optical fibre cables designed for installation in ducts. Cable is fully dielectric thus immune to electric shocks or magnetic interferences. Loose tubes, each containing 12 single mode fibres, are stranded with reversing helix around a composite glass fibre reinforced plastic (GRP) central strength member that provides longitudinal strength (tensile and compressive). The tubes are filled with a low viscosity, non-melting gel that prevent the longitudinal passage of moisture along the tube. The cable core is protected from moisture permeation and water penetration by means of a dry water blocking system. Fibre counts in the range of 36 to 144 are catered for with this construction. Each individual fibre is coloured within each tube for unambiguous identification. The cable is completed by the application of a co-extruded dual layer of polyethylene sheath with an integrally bonded nylon jacket for protection against termite attack with improved cable bending and durability.





Cable Information

Telstra Material Number	Prysmian Material Description	Number of Fibres	Nominal Weight (kg/km)	Min. Bending Radius No load (mm)	Min Bending Radius Full load (mm)	Overall Diameter (mm)	Standard Pack Length (m)	Stock/ MT0	Max Drum Length (m)	Max Hauling Tension (N)
40010738	CABLE, SM, DUCT BONDED, 36 FIBRE	36	60	86	172	8.6	-	мто	12000	1500
40010739	CABLE, SM, DUCT BONDED, 72 FIBRE	72	60	86	172	8.6	5000	Stock	12000	1500
40012808	CABLE, BBA2- LL, DUCT BONDED, 72 FIBRE	72	60	86	172	8.6	-	мто	12000	1500
40012812	CABLE, ULL, DUCT BONDED, 72 FIBRE	72	60	86	172	8.6	-	МТО	12000	1500
40010740	CABLE, SM, DUCT BONDED, 144 FIBRE	144	126	124	248	12.4	-	мто	12000	3000
40012809	CABLE, BBA2- LL, DUCT BONDED, 144 FIBRE	144	126	124	248	12.4	-	МТО	12000	3000
40012813	CABLE, ULL, DUCT BONDED, 144 FIBRE	144	126	124	248	12.4	-	мто	12000	3000

Note: Overall diameter may vary from the above nominal values between +/- 0.7 mm



36 to 72 FIBRE SM@RTLINK™ - DUCT MULTI LOOSE-TUBE CABLE

Cable description:

Cable containing up to 72 optical fibres in water blocked loose tubes (12 fibres per tube) and solid plastic fillers, laid-up around a glass reinforced plastic (GRP) central strength member, water blocked interstices, taped (where required), polyethylene overall sheathed and integrally bonded nylon jacketed.

Construction details:

Number of elements:

Tube/fibre identification: Colour coded

Central Strength member: Glass reinforced plastic (GRP) Fibre protection: Polybutylene terephthalate (PBT)

Fillers (solid plastic): As required

Water blocking: Thixotropic gel (tube)

> Water swellable varns (interstices) Polyethylene terephthalate tape

Core wrapping (where applicable):

Sheath: Polyethylene (UV stabilised)

lacket:

Nylon (UV stabilised) - Blue for all cables except those using ULL fibre. ULL cable

comprises a pink sheath

Cross sectional drawing:



Dimensions and mass:	
Overall cable diameter (nominal):	8.6mm
Mass (nominal):	60kg/km

Fibre characteristics:

G.652.D - In compliance with ITU-T recommendation G.652.D and IEC 60793-2-50 Category B-652.D BBA2-LL bend insensitive, low loss - In compliance with ITU-T recommendation G.657.A2 and IEC 60793-2-50 Category B-657.A2 ULL ultra low loss - In compliance with ITU-T recommendation G.654.C and IEC 60793-2-50 Category B-654.C

Note: Other fibres are available upon request

Mechanical and environmental performance:										
Minimum bending radius - No load	86mm									
Minimum bending radius - Full load	172mm									
Maximum tensile strength - Short term	1500 N									
Maximum crush resistance – Short term	2000 N/10cm									
Maximum crush resistance – Long term	1000 N/10cm									
Operating temperature range: From -10°C to + 70°C										

	Optical fibre and tube colours:													
Fibre 1 Tube 1	Fibre 2 Tube 2	Fibre 3 Tube 3	Fibre 4 Tube 4	Fibre 5 Tube 5	Fibre 6 Tube 6	Fibre 7	Fibre 8	Fibre 9	Fibre 10	Fibre 11	Fibre 12			
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua			

Specifications: Telstra Optical Fibre Cable; AS/CA S008 and IEC 60794 series Telstra Material numbers: 40010738, 40010739, 40012808 and 40012812

The information contained in this data sheet is subject to normal manufacturing tolerances. Specifications are subject to change within the terms and conditions of the relevant Contract/Agreement. Sheath:



144 FIBRE SM@RTLINK™ - DUCT MULTI LOOSE-TUBE CABLE

Cable description:

Cable containing 144 optical fibres in water blocked loose tubes (12 fibres per tube), laid-up around a polyethylene covered glass reinforced plastic (GRP) central strength member, water blocked interstices, polyethylene overall sheathed and integrally bonded nylon jacketed.

Construction details:

Number of elements: 12

Tube/fibre identification: Colour coded

Central Strength member: Glass reinforced plastic (GRP)
Fibre protection: Polybutylene terephthalate (PBT)

Water blocking: Thixotropic gel (tube)

Water swellable yarns (interstices)
Polyethylene (UV stabilised)

Jacket: Nylon (UV stabilised) - Blue for all

cables except those using ULL fibre. ULL cable comprises a pink sheath

Cross sectional drawing:



Drawing not to scale

Dimensions and mass:									
Overall cable diameter (nominal):	12.4mm								
Mass (nominal):	126kg/km								

Fibre characteristics:

G.652.D - In compliance with ITU-T recommendation G.652.D and IEC 60793-2-50 Category B-652.D BBA2-LL bend insensitive, low loss - In compliance with ITU-T recommendation G.657.A2 and IEC 60793-2-50 Category B-657.A2 ULL ultra low loss - In compliance with ITU-T recommendation G.654.C and IEC 60793-2-50 Category B-654.C

Note: Other fibres are available upon request

Mechanical and environmental performance:									
Minimum bending radius - No load	124mm								
Minimum bending radius - Full load	248mm								
Maximum tensile strength - Short term	3000 N								
Maximum crush resistance – Short term	2000 N/10cm								
Maximum crush resistance – Long term	1000 N/10cm								
Operating temperature range: From -10°C to + 70°C									

	Optical fibre and tube colours:													
Fibre 1 Tube 1	Fibre 2 Tube 2	Fibre 3 Tube 3	Fibre 4 Tube 4	Fibre 5 Tube 5	Fibre 6 Tube 6	Fibre 7 Tube 7	Fibre 8 Tube 8	Fibre 9 Tube 9	Fibre 10 Tube 10	Fibre 11 Tube 11	Fibre 12 Tube 12			
Blue	Orange	Green	Brown	Grey	White	Red	Black		Violet	Pink	Aqua			

Specifications: Telstra Optical Fibre Cable; AS/CA S008 and IEC 60794 series Telstra Material numbers: 40010740, 40012809 and 40012813

The information contained in this data sheet is subject to normal manufacturing tolerances. Specifications are subject to change within the terms and conditions of the relevant Contract/Agreement.



Flextube® Duct Flexible Module Cable

Flexible Module optical fibre cables designed for installation in ducts. Cable is fully dielectric thus immune to electric shocks or magnetic interferences. Flexible modules each contain 12 single mode fibres. The modules are filled with a low viscosity, non-melting gel that prevents the longitudinal passage of moisture. The cable core is protected from moisture permeation and water penetration by means of a dry water blocking system. A layer of polymer yarns are helically applied over the cable bundle. Composite glass fibre reinforced plastic (GRP) strength members that provide longitudinal strength (tensile and compressive) are embedded in the sheath during the extrusion process. The application of a co-extruded dual layer of polyethylene sheath with an integrally bonded nylon jacket forms protection against termite attack with improved cable bending and durability.

Fibre counts of 360F and 720F are catered for with this construction. Each individual fibre is coloured within each tube for unambiguous identification.





Cable Information

Telstra Material Number	Prysmian Material Description	Number of Fibres	Nominal Weight (kg/km)	Min. Bending Radius No load (mm)	Min Bending Radius Full Ioad (mm)	Overall Diameter (mm)	Standard Pack Length (m)	Stock/ MT0	Max Drum Length (m)	Max Hauling Tension (N)
40010869	CABLE, SM DUCT BONDED, 360 FIBRE	360	145	144	288	14.4	-	МТО	10000	2500
40012744	CABLE, BBA2- LL, DUCT BONDED, 360 FIBRE	360	145	144	288	14.4	-	МТО	10000	2500
40013164	CABLE, ULL, DUCT BONDED, 360 FIBRE	360	145	144	288	14.4	-	МТО	10000	2500
40007900	CABLE, BBXS DUCT BONDED, 720 FIBRE	720	200	165	330	16.5	-	МТО	7000	4000

Note: 720F comprises BBXS 200µm G657.A2

Note: Overall diameter may vary from the above nominal values between +/- 0.7mm



360 FIBRE FLEXTUBE® - DUCT FLEXIBLE MODULE CABLE

Cable description:

Cable containing 360 optical fibres in water blocked flexible modules (12 fibres per module), water blocked interstices, polymer yarn, taped, 2 glass reinforced plastic (GRP) strength members embedded, polyethylene overall sheathed and integrally bonded nylon jacketed.

Construction details:

Number of elements: 30 Module/fibre identification: Colour coded

Fibre protection: Thin walled thermoplastic

Water blocking: Thixotropic gel (modules)

Water swellable yarns (interstices)

Peripheral Yarns Polymer yarns

Embedded strength member: Diametrically opposed glass

reinforced plastic (GRP)

Sheath: Polyethylene (UV stabilised)

Jacket: Nylon (UV stabilised) - Blue for al

ket: Nylon (UV stabilised) - Blue for all cables except those using ULL fibre.

ULL cable comprises a pink sheath

Cross sectional drawing:



Dimensions and mass:								
Overall cable diameter (nominal):	14.4mm							
Mass (nominal):	145kg/km							
Fibra de construitation								

Fibre characteristics:

G.652.D - In compliance with ITU-T recommendation G.652.D and IEC 60793-2-50 Category B-652.D BBA2-LL bend insensitive, low loss - In compliance with ITU-T recommendation G.657.A2 and IEC 60793-2-50 Category B-657.A2 ULL ultra low loss - In compliance with ITU-T recommendation G.654.C and IEC 60793-2-50 Category B-654.C

Mechanical and environmental performance:									
Minimum bending radius – No load	144mm								
Minimum bending radius - Full load	288mm								
Maximum tensile strength - Short term	2500 N								
Maximum crush resistance – Short term	2000 N/10cm								
Maximum crush resistance – Long term	1000 N/10cm								
Operating temperature range: From -10°C to + 70°C									

Optical fibre colours:													
Fibre 1	Fibre 2	Fibre 3	Fibre -	4 Fibre	5 Fib	re 6 Fi	ibre 7	Fibre 8	Fibre 9	Fibre 10	Fibre 11	Fibre 12	
Blue	Orange	Green	Browi	n Gre	y Wh	nite	Red	Black	Yellow	Violet	Pink	Aqua	
Module colours:													
No.	1	2	3	4	5	6	7	8	9	10	11	12	
Colour	Blue	Orange	Green	Brown	Grey	White	Red	Ligh: greei		/ Violet	Pink	Aqua	
	1	1	1	I	1	1	1	I	I	I	1	1	
No.	13	14	15	16	17	18	19	20	21	22	23	24	
Colour	Blue	Orange	Green	Brown	Grey	White	Red	Ligh: greei		/ Violet	Pink	Aqua	
	H	H	H	- II	П	- 11	- 11	- 11	- 11	- II	- 11	П	
No.	25	26	27	28	29	30							
Colour	Blue	Orange	Green	Brown	Grey	White							

Specifications: Telstra Optical Fibre Cable; AS/CA S008 and IEC 60794 series Telstra Material number: 40010869, 40012744 and 40013164

The information contained in this data sheet is subject to normal manufacturing tolerances. Specifications are subject to change within the terms and conditions of the relevant Contract/Agreement.



720 FIBRE FLEXTUBE® - DUCT FLEXIBLE MODULE CABLE

Cable description:

Cable containing 720 optical fibres in water blocked flexible modules (12 fibres per module), water blocked interstices, polymer yarns, taped, 2 glass reinforced plastic (GRP) strength members embedded, polyethylene overall sheathed and integrally bonded nylon jacketed.

Construction details: Cross sectional drawing: Thin Walled Flexible Modules Number of elements: Module/fibre identification: Colour coded Optical Fibres and Filling Compound Fibre protection: Thin walled thermoplastic Water Swellable Varns Water blocking: Thixotropic gel (modules) -Water Swellable Tape Water swellable yarns (interstices) Polymer varns Peripheral Yarns Polymer yarns Non metallic (GRP) embedded Embedded strength member: Diametrically opposed glass strength members reinforced plastic (GRP) Polyethylene Sheath Sheath: Polyethylene (UV stabilised) -Nylon Jacket (Bonded to PE) Nylon (UV stabilised) - Blue lacket: Drawing not to scale

Dimensions and mass:	
Overall cable diameter (nominal):	16.5mm
Mass (nominal):	200kg/km

Fibre characteristics:	
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Single-mode 1310nm optimised, 200µm bend-insensitive: In compliance with ITU-T recommendation G.657.A2 and IEC 60793-2-50 Category B-657.A2

Mechanical and environmental performance:	
Minimum bending radius – No load	165mm
Minimum bending radius - Full load	330mm
Maximum tensile strength - Short term	4000 N
Maximum crush resistance – Short term	2000 N/10cm
Maximum crush resistance – Long term	1000 N/10cm

Operating temperature range: From -10°C to + 70°C

					Opt	tical fibr	e colours	i:					
Fibre 1	Fibre 2	Fibre 3	Fibre 4	Fibre	5 Fi	bre 6	Fibre 7	F	ibre 8	Fibre 9	Fibre 10	Fibre 11	Fibre 12
Blue	Orange	Green	Brown	Gre	y V	/hite	Red	E	3lack	Yellow	Violet	Pink	Aqua
					١	Module c	olours:						
No.	1	2	3	4	5	6		7	8	9	10	11	12
Colour	Blue	Orange	Green	Brown	Grey	Whi	te f	Red	Light green	Yellow	Violet	Pink	Aqua
	1	J.		10		1		1					
No.	13	14	15	16	17	18		19	20 Light	21	22	23	24
Colour	Blue	Orange	Green	Brown	Grey	Whi	te f	Red	green	Yellow	Violet	Pink	Aqua
	П	П	П	II I	- II	- 11		II .	l II	ll ll	- II	Ш	II
No.	25	26	27	28	29	30		31	32	33	34	35	36
Colour	Blue	Orange	Green	Brown	Grey	Whi	te f	Red	Light green	Yellow	Violet	Pink	Aqua
	III	III	III	III	- III	111		Щ	111	III	III	III	III
No.	37	38	39	40	41	42		43	44	45	46	47	48
Colour	Blue	Orange	Green	Brown	Grey	Whi	te f	Red	Light green	Yellow	Violet	Pink	Aqua
	Ш	IIII	Ш	IIII	1111	111		Ш	TIII	1111	1111	1111	IIII
No.	49	50	51	52	53	54		55	56	57	58	59	60
Colour	Blue	Orange	Green	Brown	Grey	Whi	te f	Red	Light green	Yellow	Violet	Pink	Aqua
		Sp	ecification		Optical F Istra Mat					60794 seri	es		

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HSe - eXTR@CORE® Direct Buried High Strength Cable

Multi Loose-Tube optical fibre cables designed for installation by direct burial. Cable fully dielectric thus immune to electric shocks or magnetic interferences. Loose tubes of increased hoop strength, each containing up to 24 single mode fibres, are stranded with reversing helix around a composite glass fibre reinforced plastic (GRP) central strength member. The dimension of the strength member has been increased to afford high longitudinal strength, particularly in compression to resist the massive forces typically experienced in areas of reactive/black soils commonly found in rural Australia. The tubes are filled with a low viscosity, non-melting gel that prevents the longitudinal passage of moisture along the tube. The cable core is protected from moisture permeation and water penetration by means of a dry water blocking system. Fibre counts in the range of 36 to 144 are catered for with this construction. Each individual fibre and tube is coloured for unambiguous identification. The cable is completed by the application of a co-extruded dual layer of polyethylene sheath with an integrally bonded nylon jacket for protection against termite attack with improved cable bending and durability. The thickness of the combined polyethylene/nylon is considerably thicker than that of Duct cables.





Cable Information

Telstra Material Number	Prysmian Material Description	Number of Fibres	Nominal Weight (kg/km)	Min. Bending Radius No load (mm)	Min Bending Radius Full load (mm)	Overall Diameter (mm)	Standard Pack Length (m)	Stock/ MTO	Max Drum Length (m)	Max Hauling Tension (N)
48436136	CABLE, SM, HIGH STRENGTH, 36 FIBRE	36	175	225	450	14.8	-	МТО	12000	4000
48436172	CABLE, SM, HIGH STRENGTH, 72 FIBRE	72	175	225	450	14.8	-	мто	12000	4000
40012810	CABLE, BBA2-LL, HIGH STRENGTH, 72 FIBRE	72	175	225	450	14.8	-	МТО	12000	4000
40012814	CABLE, ULL, HIGH STRENGTH, 72 FIBRE	72	175	225	450	14.8	-	мто	12000	4000
40012811	CABLE, BBA2-LL, HIGH STRENGTH, 144 FIBRE	144	180	225	450	14.8	-	МТО	12000	4000
40012815	CABLE, ULL, HIGH STRENGTH, 144 FIBRE	144	180	225	450	14.8	-	мто	12000	4000

Note: Overall diameter may vary from the above nominal values between +/- 0.7 mm



36 to 72 FIBRE HSe eXTR@CORE® - DIRECT BURIED HIGH STRENGTH

(For Underground Direct Buried Applications)

Cable description:

Cable containing up to 72 optical fibres in water blocked loose tubes (12 fibres/ tube) laid-up with fillers around a non-metallic glass reinforced plastic (GRP) central strength member, water blocked interstices, taped (if required), polyethylene overall sheath and integrally bonded, nylon jacket.

Construction details:

Number of elements: 6

Tube/Fibre identification: Colour coded

Central strength member: Glass reinforced plastic (GRP)
Fibre protection (tubes): Polybutylene terephthalate (PBT)

Fillers (solid plastic): As required

Water blocking: Thixotropic gel (tubes)

Water swellable yarns (interstices) Polyethylene terephthalate tape

Core wrapping (where applicable):

Sheath: Polyethylene (UV Stabilised)

Jacket: Nylon (UV stabilised) - Blue for all cables

except those using ULL fibre. ULL cable comprises a pink sheath

Cross sectional drawing:



Dimensions and mass:	
Overall cable diameter (nominal):	14.8 mm
Mass (nominal):	175kg/km

Fibre characteristics:

G.652.D - In compliance with ITU-T recommendation G.652.D and IEC 60793-2-50 Category B-652.D BBA2-LL bend insensitive, low loss - In compliance with ITU-T recommendation G.657.A2 and IEC 60793-2-50 Category B-657.A2 ULL ultra low loss - In compliance with ITU-T recommendation G.654.C and IEC 60793-2-50 Category B-654.C

Note: Other fibres are available upon request

Mechanical and environmental performance:										
Minimum bending radius - No load	225 mm									
Minimum bending radius - Full load	450 mm									
Maximum tensile strength - Short term	4000 N									
Maximum crush resistance – Short term	6000 N/10cm									
Maximum crush resistance - Long term	3000N/10cm									
Axial Compression Min. 3kN load $\leq 50\pm3\%$ x cable OD lateral deviation	≥1.5%									
Operating temperature range: From - 10°C to + 70°C										

	Optical fibre and tube colours:												
Fibre 1 Tube 1	Fibre 2 Tube 2	Fibre 3 Tube 3	Fibre 4 Tube 4	Fibre 5 Tube 5	Fibre 6 Tube 6	Fibre 7	Fibre 8	Fibre 9	Fibre 10	Fibre 11	Fibre 12		
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua		

Specifications: Telstra Optical Fibre Cable; AS/CA S008 and IEC 60794 series Telstra Material numbers: 48436136, 48436172, 40012810 and 40012814

The information contained in this data sheet is subject to normal manufacturing tolerances. Specifications are subject to change within the terms and conditions of relevant agreement and/or contract



144 FIBRE HSe eXTR@CORE® - DIRECT BURIED HIGH STRENGTH

(For Underground Direct Buried Applications)

Cable description:

Cable containing 144 optical fibres in water blocked loose tubes (24 fibres per tube) laid-up around a polyethylene covered glass reinforced plastic (GRP) central strength member, water blocked interstices, polyethylene overall sheath and integrally bonded nylon jacket.

Construction details:

Number of elements: 6
Tube/Fibre identification: Colour coded

Central strength member: Glass reinforced plastic (GRP)
Fibre protection (tubes): Polybutylene terephthalate (PBT)
Water blocking: Thixotropic gel (tubes)

Water swellable yarns (interstices)

Sheath: Polyethylene (UV Stabilised)
lacket: Nylon (UV Stabilised) - Blue for all o

Nylon (UV stabilised) - Blue for all cables except those using ULL fibre. ULL cable

comprises a pink sheath

Cross sectional drawing:



(Drawing not to scale)

Dimensions and mass:										
Overall cable diameter (nominal):	14.8mm									
Mass (nominal):	180 kg/km									
Mass (norninal):	180 Kg/KITI									

Fibre characteristics:

BBA2-LL bend insensitive, low loss - In compliance with ITU-T recommendation G.657.A2 and IEC 60793-2-50 Category B-657.A2 ULL ultra low loss - In compliance with ITU-T recommendation G.654.C and IEC 60793-2-50 Category B-654.C

Note: Other fibres are available upon request

Mechanical and environmental performance:	
Minimum bending radius - No load	225mm
Minimum bending radius - Full load	450mm
Maximum tensile strength - Short term	4000 N
Maximum crush resistance – Short term	6000 N/10cm
Maximum crush resistance - Long term	3000N/10cm
Axial Compression Min. 3kN load ≤ 50% x cable OD lateral deviation	≥1.5%
0 11 1 5 1005	

Operating temperature range: From - 10°C to + 70°C

	Optical fibre colours (BBA2-LL):														
Fibre 1	Fibre 2	Fibre 3	Fibre 4	Fibre 5	Fibre 6	Fibre 7	Fibre 8	Fibre 9	Fibre 10	Fibre 11	Fibre 12				
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua				
Fibre 13	Fibre 14	Fibre 15	Fibre 16	Fibre 17	Fibre 18	Fibre 19	Fibre 20	Fibre 21	Fibre 22	Fibre 23	Fibre 24				
Blue	Orange	Green	Brown	Grey	White	Red	White	Yellow	Violet	Pink	Aqua				
				0	ptical fibre (colours (ULL	_):								
Fibre 1	F11 0														
I IDIC I	Fibre 2	Fibre 3	Fibre 4	Fibre 5	Fibre 6	Fibre 7	Fibre 8	Fibre 9	Fibre 10	Fibre 11	Fibre 12				
Blue	Orange	Fibre 3 Green	Fibre 4 Brown	Fibre 5 Grey	Fibre 6 White	Fibre 7 Red	Fibre 8 Black	Fibre 9 Yellow	Fibre 10 Violet	Fibre 11 Pink	Fibre 12 Aqua				
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua				
Blue Fibre 13	Orange Fibre 14	Green Fibre 15	Brown Fibre 16	Grey Fibre 17	White Fibre 18	Red Fibre 19	Black Fibre 20	Yellow Fibre 21	Violet Fibre 22	Pink Fibre 23	Aqua Fibre 24				

 Tube colours:

 Tube 1
 Tube 2
 Tube 3
 Tube 4
 Tube 5
 Tube 6

 Blue
 Orange
 Green
 Brown
 Grey
 White

Specifications: Telstra Optical Fibre Cable; AS/CA S008 and IEC 60794 series Telstra Material number: 40012811 and 40012815

The information contained in this data sheet is subject to normal manufacturing tolerances. Specifications are subject to change within the terms and conditions of relevant agreement and/or contract.



ARM@CORE® Rodent Proof All Dielectric Cable

Multi Loose-Tube optical fibre cables designed for installation by direct burial in locations subject to rodent attack. Cable is fully dielectric thus immune to electric shocks or magnetic interferences. Loose tubes each containing up to 12 single mode fibres are stranded with reversing helix around a composite glass fibre reinforced plastic (GRP) central strength member and complemented with composite GRP armouring to resist rodent attack. Fibre counts in the range of 36 to 144 are catered for with this construction.

360 fibre count is constructed in a Flextube® design, for installation in ducts. A black polyethylene inner sheath is provided to act as bedding for a layer of flat Glass Reinforced Plastic straps that are applied helically to provide an extremely effective barrier to all types and sizes of rodents. The cable is then completed by the application of a co-extruded dual layer of polyethylene sheath with an integrally bonded Nylon jacket for protection against termites.

This cable has been tested extensively for resistance to rodent attack by the Department of Natural resources and Mines and the University of Queensland to demonstrate that even after severe exposure, cable integrity is maintained.





Cable Information

Telstra Material Number	Prysmian Material Description	Number of Fibres	Nominal Weight (kg/km)	Min. Bending Radius No load (mm)	Min Bending Radius Full load (mm)	Overall Diameter (mm)	Standard Pack Length (m)	Stock/ MTO	Max Drum Length (m)	Max Hauling Tension (N)
48453136	CABLE, SM RODENT PROOF, 36 FIBRE	36	185	220	440	14.7	-	МТО	12000	4000
48453172	CABLE, SM RODENT PROOF, 72 FIBRE	72	185	220	440	14.7	-	МТО	12000	4000
40013323	CABLE, BBA2- LL RODENT PROOF, 72 FIBRE	72	185	220	440	14.7	-	мто	12000	4000
40013326	CABLE, ULL RODENT PROOF, 72 FIBRE	72	185	220	440	14.7	-	МТО	12000	4000
48453544	CABLE, SM RODENT PROOF, 144 FIBRE	144	317	295	590	19.5	-	мто	7000	5000
40013324	CABLE, BBA2- LL RODENT PROOF, 144 FIBRE	144	317	295	590	19.5	-	МТО	7000	5000
40013327	CABLE, ULL RODENT PROOF, 144 FIBRE	144	317	295	590	19.5	-	мто	7000	5000
40010128	CABLE, SM RODENT PROOF, 360 FIBRE	360	230	249	498	16.6	-	МТО	5000	5000
40013325	CABLE, BBA2- LL RODENT PROOF, 360 FIBRE	360	230	249	498	16.6	-	мто	5000	5000
40013328	CABLE, ULL RODENT PROOF, 360 FIBRE	360	230	249	498	16.6	-	МТО	5000	5000

^{*}Note: Overall diameter may vary from the above nominal values between +/- 1.5mm

^{*}Note: Rodent proof 360F cable is constructed in a Flextube design (i.e. not multi loose-tube).



(For Underground Duct or Direct Buried Applications)

Cable description:

Cable containing up to 36 optical fibres in water blocked loose tubes (12 fibres per tube) and round plastic fillers laid-up around a glass reinforced plastic (GRP) central strength member, water blocked interstices, polyethylene inner sheath, glass reinforced plastic strap armoured, polyethylene overall sheath and integrally bonded nylon jacket.

Construction details:

Number of elements: 5

Tube/Fibre identification: Colour coded

Central strength member: Glass reinforced plastic (GRP)
Fibre protection (tubes): Polybutylene terephthalate (PBT)

Water blocking: Thixotropic gel (tubes)

Water swellable yarns (interstices)

Inner sheath: Polyethylene

Armouring: Glass reinforced plastic straps
Water blocking: Water swellable tape (over armour)

Sheath: Polyethylene Jacket: Nylon (UV Stabilised)

PBT Loose Tube(s) Optical Fibres and Filling Compound Non-Metallic (CRP) Central Strength Member Ripcords (2) Water Swellable Yarns Solid plastic fillers Polyethylene Inner Sheath

-GRP Strap Armour

-Polyethylene Sheath Nylon Sheath (Bonded to PE)

36 Fibre Rodent Proof (Drawing not to scale)

Cross sectional drawing:

Dimensions and mass:									
Overall cable diameter (nominal):	14.7 mm								
Mass (nominal):	185 kg/km								

Fibre characteristics:

G.652.D - In compliance with ITU-T recommendation G.652.D and IEC 60793-2-50 Category B-652.D

Note: Other fibres are available upon request

Mechanical and environmental performance:											
Minimum bending radius - No load	220 mm										
Minimum bending radius - Full load	440 mm										
Maximum tensile strength - Short term	4000 N										
Maximum crush resistance – Short term	6000 N/10cm										
Maximum crush resistance - Long term	3000N/10cm										
Operating temperature range: From -10°C to + 70	°C										
Optical fibre and tube colours:											

	Uptical fibre and tube colours:													
Fibre 1 Tube 1	Fibre 2 Tube 2	Fibre 3 Tube 3	Fibre 4 Tube 4	Fibre 5 Tube 5	Fibre 6	Fibre 7	Fibre 8	Fibre 9	Fibre 10	Fibre 11	Fibre 12			
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua			

Specifications: Telstra Optical Fibre Cable; AS/CA S008 and IEC 60794 series Telstra Material number: 48453136

The information contained in this data sheet is subject to normal manufacturing tolerances. Specifications are subject to change within the terms and conditions of relevant agreement and/or contract.



(For Underground Duct or Direct Buried Applications)

Cable description:

Cable containing 72 optical fibres in water blocked loose tubes (12 fibres per tube) laid-up around a composite glass reinforced plastic (GRP) central strength member, water blocked interstices, polyethylene inner sheath, GRP strap armour, overall polyethylene sheath and integrally bonded nylon jacket.

Construction details:

Number of elements:

Tube/Fibre identification: Colour coded

Central strength member: Glass reinforced plastic (GRP) Fibre protection (tubes): Polybutylene terephthalate (PBT)

Water blocking: Thixotropic gel (tubes)

Water swellable yarns (interstices)

Inner sheath: Polyethylene

Armouring: Glass reinforced plastic straps Water blocking: Water swellable tape (over armour) Sheath: Polyethylene (UV Stabilised) lacket:

Nylon (UV stabilised) - Blue for all cables except those using ULL fibre. ULL cable comprises a pink sheath

Cross sectional drawing:



Dimensions and mass:										
Overall cable diameter (nominal):	14.7 mm									
Mass (nominal):	185 kg/km									

Fibre characteristics:

G.652.D - In compliance with ITU-T recommendation G.652.D and IEC 60793-2-50 Category B-652.D BBA2-LL bend insensitive, low loss - In compliance with ITU-T recommendation G.657.A2 and IEC 60793-2-50 Category B-657.A2 ULL ultra low loss - In compliance with ITU-T recommendation G.654.C and IEC 60793-2-50 Category B-654.C

Note: Other fibres are available upon request

	Mechanical and environmental performance:													
		220 mm												
			440 mn	n										
				4000 N	l									
		Max		6000 N/10cm										
		Ma	ximum crus	h resistanc	e - Long ter	m			3000N/10cm					
				Operating :	temperatur	e range: Fro	m -10°C to +	- 70°C						
				C	Optical fibre	and tube c	olours:							
Fibre 1 Tube 1											Fibre 12			
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua			

Specifications: Telstra Optical Fibre Cable; AS/CA S008 and IEC 60794 series Telstra Material number: 48453172, 40013323 and 40013326

The information contained in this data sheet is subject to normal manufacturing tolerances. Specifications are subject to change within the terms and conditions of relevant agreement and/or contract.



(For Underground Duct or Direct Buried Applications)

Cable description:

Cable containing 144 optical fibres in water blocked loose tubes (12 fibres per tube) laid-up around a polyethylene covered glass reinforced plastic (GRP) central strength member, water blocked interstices, polyethylene inner sheath, GRP strap armour, overall polyethylene sheath and integrally bonded nylon jacket.

Construction details:

Number of elements:

Tube/Fibre identification: Colour coded

Central strength member: Glass reinforced plastic (GRP) Fibre protection (tubes): Polybutylene terephthalate (PBT)

Water blocking: Thixotropic gel (tubes)

Water swellable yarns (interstices)

Inner sheath: Polyethylene

Glass reinforced plastic straps Armouring: Water blocking: Water swellable tape (over armour) Sheath: Polyethylene (UV Stabilised) lacket: Nylon (UV stabilised) - Blue for all

cables except those using ULL fibre. ULL cable comprises a pink sheath

Cross sectional drawing:



Dimensions and mass:										
Overall cable diameter (nominal):	19.5 mm									
Mass (nominal):	317 kg/km									

Fibre characteristics:

G.652.D - In compliance with ITU-T recommendation G.652.D and IEC 60793-2-50 Category B-652.D BBA2-LL bend insensitive, low loss - In compliance with ITU-T recommendation G.657.A2 and IEC 60793-2-50 Category B-657.A2 ULL ultra low loss - In compliance with ITU-T recommendation G.654.C and IEC 60793-2-50 Category B-654.C

Note: Other fibres are available upon request

Mechanical and environmental performance:										
Minimum bending radius - No load 295 mm										
Minimum bending radius – Full load	590 mm									
Maximum tensile strength - Short term	5000 N									
Maximum crush resistance – Short term	6000 N/10cm									
Maximum crush resistance - Long term	3000N/10cm									
Operating temperature range: From -10°C to + 70°C										

	Optical fibre and tube colours:														
Fibre 1 Tube 1	Fibre 2 Tube 2	Fibre 3 Tube 3	Fibre 4 Tube 4	Fibre 5 Tube 5	Fibre 6 Tube 6	Fibre 7 Tube 7	Fibre 8 Tube 8	Fibre 9 Tube 9	Fibre 10 Tube 10	Fibre 11 Tube 11	Fibre 12 Tube 12				
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua				

Specifications: Telstra Optical Fibre Cable; AS/CA S008 and IEC 60794 series Telstra Material number: 48453544, 40013324 and 40013327

The information contained in this data sheet is subject to normal manufacturing tolerances. Specifications are subject to change within the terms and conditions of relevant agreement and/or contract.



(For Underground Duct Applications)

Cable description:

Cable containing 360 optical fibres in water blocked flexible modules (12 fibres per module), water blocked interstices, polymer yarns, taped, polyethylene inner sheath, GRP strap armour, overall polyethylene overall sheath and integrally bonded nylon jacket.

Construction details:

Number of elements: 30
Tube/fibre identification: Colour coded

Fibre protection: Thin walled thermoplastic Water blocking: Thixotropic gel (modules)

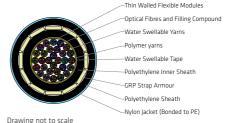
Water swellable yarns (interstices)
Peripheral Yarns: Polymer yarns
Inner sheath: Polyethylene

Amouring: Glass reinforced plastic straps
Water blocking: Water swellable tape (over armour)
Sheath: Polyethylene (UV stabilised)

Jacket: Nylon (UV stabilised) - Blue for all cables except those using ULL fibre.

ULL cable comprises a pink sheath

Cross sectional drawing:



nrawing not to scan

Dimensions and mass:	
Overall cable diameter (nominal):	16.6mm
Mass (nominal):	230kg/km

Fibre characteristics:

G.652.D - In compliance with ITU-T recommendation G.652.D and IEC 60793-2-50 Category B-652.D BBA2-LL bend insensitive, low loss - In compliance with ITU-T recommendation G.657.A2 and IEC 60793-2-50 Category B-657.A2 ULL ultra low loss - In compliance with ITU-T recommendation G.654.C and IEC 60793-2-50 Category B-654.C

Mechanical and environmental performance:	
Minimum bending radius - No load	249mm
Minimum bending radius - Full load	498mm
Maximum tensile strength - Short term	5000 N
Maximum crush resistance – Short term	4000 N/10cm
Maximum crush resistance - Long term	2000N/10cm
0 11 1 2 10 1 10 10 10 10 10 10 10 10 10 10 10 1	

Operating temperature range: From -10°C to + 70°C

	Optical fibre colours:													
Fibre 1	Fibre 2	Fibre 3	Fibre	4 Fibre	5 Fib	re 6 F	ibre 7	Fibre	8 1	Fibre 9	Fibre 10	Fibre 11	Fibre 12	
Blue	Orange	Green	Brow	n Gre	y WI	nite	Red	Black	k	Yellow	Violet	Pink	Aqua	
	Module colours:													
No.	1	2	3	4	5	6	7		8	9	10	11	12	
Colour	Blue	Orange	Green	Brown	Grey	White	Re		Light green	Yellow	Violet	Pink	Aqua	
	1	1	1	1	1		1		1	1	1	1	- 1	
No.	13	14	15	16	17	18	19		20	21	22	23	24	
Colour	Blue	Orange	Green	Brown	Grey	White	Re		Light green	Yellow	Violet	Pink	Aqua	
	H II	- 11	H	- 11	- 11	- 11	- 11		П	- 11	- II	П	H	
No.	25	26	27	28	29	30								
Colour	Blue	Orange	Green	Brown	Grey	White								
	101	111	101	111	111	101								

Specifications: Telstra Optical Fibre Cable; AS/CA 5008 and IEC 60794 series Telstra Material number: 40010128, 40013325 and 40013328

The information contained in this data sheet is subject to normal manufacturing tolerances. Specifications are subject to change within the terms and conditions of the relevant Contract/Agreement.



SM@RTSPAN® Aerial All Dielectric Self Supporting (ADSS)

Aerial cables are of All Dielectric Self Supported (ADSS) design. Multi Loose-Tube optical fibre cables designed for installation between poles up to 150m apart. Loose tubes each containing up to 12 single mode fibres are stranded around a composite glass fibre reinforced plastic (GRP) central strength member. The cable core is protected from moisture permeation and water penetration by means of a dry water blocking system. A black polyethylene inner sheath is then applied as a bedding for a layer of high modulus aramid varns that form the principal strength member of the cable. The cable is completed by the application of a snug fitting polyethylene sheath that has strong congruence with the aramid yarns and enables external grips to be fitted for stringing. The cable is designed for 150m span at a minimum of 2% sag under everyday conditions (no wind or ice and ambient temperature). The cable, installed as such, will withstand simultaneous wind and ice loads of 100km/h and 5 mm radial respectively. This cable withstands shot-gun blast as defined in Telstra specification. Longer span lengths up to 500 metres are available upon request.





Cable Information

Telstra Material Number	Prysmian Material Description	Number of Fibres	Nominal Weight (kg/km)		Min Bending Radius Full load (mm)	Overall Diameter (mm)	Standard Pack Length (m)	Stock/ MTO	Max Drum Length (m)	Max Hauling Tension (N)
48431112	CABLE, SM AERIAL SHORT SPAN, 12 FIBRE	12	132	203	270	13.5	1000	МТО	6000	2700
48431172	ABLE, SM AERIAL SHORT SPAN, 72 FIBRE	72	159	218	290	14.5	1000	мто	6000	3000

Note: Overall diameter tolerance is aligned with standard clamp sizes.

Note: Overall diameter may vary from the above nominal values between +/- 0.3mm



12 FIBRE SM@RTSPAN® - AERIAL ADSS

(Short Span Self - Supported Cable)

Cable description:

Cable containing 12 optical fibres in water blocked loose tubes (12 fibres per tube) and round plastic fillers, laid-up around a glass reinforced plastic (CRP) central strength member, water blocked interstices, polyethylene inner sheath, high tensile strength polymer yarns reinforced and polyethylene overall sheath.

Construction details:

Number of elements: 5

Tube/Fibre identification: Colour coded

Central strength member: Glass reinforced plastic (GRP)
Fibre protection (tubes): Polybutylene terephthalate (PBT)

Fillers: As required

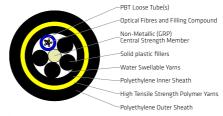
Water blocking: Thixotropic gel (tubes)

Water swellable varns (interstices)

Sheath: Polyethylene

Reinforcing: High tensile strength polymer yarns
Outer sheath: Polyethylene (UV Stabilised)

Cross sectional drawing:



(Drawing not to scale)

Dimensions and mass:								
Overall cable diameter (nominal):	13.5 mm							
Mass (nominal):	132 kg/km							

Fibre characteristics:

G.652.D - In compliance with ITU-T recommendation G.652.D and IEC 60793-2-50 Category B-652.D

Note: Other fibres are available upon request

Mechanical and environmental performance:	
Minimum bending radius - No load	203 mm
Minimum bending radius – Full load (Inc. coils in poles)	270 mm
Maximum Everyday Stress (EDS) @15°C	1.3 kN
Maximum Operating Stress (MOS)	5.4kN
Maximum crush resistance – Short term	2kN/10cm
Maximum span*	150m
Minimum sag (Installation)	2%
Operating temperature range: From -30°C to + 70°C	

(*) = Under maximum conditions of 100 km/hr wind velocity and 5mm radial ice loading

	Optical fibre and tube colours:												
Fibre 1 Tube 1													
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua		

Specifications: Telstra Optical Fibre Cable; AS/CA S008 and IEC 60794 series
Telstra Material numbers: 48431112

The information contained in this data sheet is subject to normal manufacturing tolerances. Specifications are subject to change within the terms and conditions of relevant agreement and/or contract.



72 FIBRES SM@RTSPAN® - AERIAL ADSS

(Short Span Self - Supported Cable)

Cable description:

Cable containing 72 optical fibres in water blocked loose tubes (12 fibres per tube) laid-up around a glass reinforced plastic (GRP) central strength member, water blocked interstices, polyethylene inner sheath, high tensile strength polymer yarns reinforced and polyethylene overall sheath.

Construction details:

Number of elements:

Tube/Fibre identification: Colour coded

Central strength member: Glass reinforced plastic (GRP)
Fibre protection (tubes): Polybutylene terephthalate (PBT)

Water blocking: Thixotropic gel (tubes)

Water swellable yarns (interstices)

Sheath: Polyethylene

Reinforcing: High Tensile Strength Polymer Yarns

Outer sheath: Polyethylene (UV Stabilised)

Cross sectional drawing:



(Drawing not to scale)

Dimensions and mass:	
Overall cable diameter (nominal):	14.5 mm
Mass (nominal):	159 kg/km

Fibre characteristics:

G.652.D - In compliance with ITU-T recommendation G.652.D and IEC 60793-2-50 Category B-652.D

Note: Other fibres are available upon request

Mechanical and environmental performance:									
Minimum bending radius - No load	218 mm								
Minimum bending radius – Full load (Inc. coils in poles)	290 mm								
Maximum Everyday Stress (EDS) @15°C	1.5 kN								
Maximum Operating Stress (MOS)	5.8 kN								
Maximum crush resistance – Short term	2 kN/10cm								
Maximum span*	150m								
Minimum sag (Installation)	2%								
Operating temperature range: From - 30°C to + 70°C									

^{(*) =} Under maximum conditions of 100 km/hr wind velocity and 5mm radial ice loading

	Optical fibre and tube colours:												
Fibre 1 Tube 1													
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua		

Specifications: Telstra Optical Fibre Cable; AS/CA S008 and IEC 60794 series
Telstra Material number: 48431172

The information contained in this data sheet is subject to normal manufacturing tolerances. Specifications are subject to change within the terms and conditions of relevant agreement and/or contract.



UNDERWATER Flextube®

Multi Flexible Module optical fibre cables designed for installation in shallow water up to 30m.

Cable has a fully dielectric core that is protected by the application of three layers of metallic armouring. Underwater Flextube is available in a fibre count of 144, 360 and 720 fibres. The cable core is fully water blocked by means of a dry water blocking system. A bedding layer of polyethylene is applied over the cable core to support a composite sheath featuring a corrugated steel tape armour/hermetic seal that is bonded to a polyethylene sheath. The space between the inner sheath and the metallic tape is protected with a swellable tape to prevent moisture permeation in case of external damage to the cable. Two contra-rotating helical lavers of steel armour wires are applied flooded with a special mixture of water swelling jelly and hydrogen absorbing (Hydroget®) compound to provide long-term water blocking protection to the cable. The cable is then completed by the application of a high density polyethylene sheath.

Each individual fibre is coloured within each tube for unambiguous identification.





Cable Information

Telstra Material Number	Prysmian Material Description	Number of Fibres	Nominal Weight (kg/ km)	Min. Bending Radius No load (mm)	Min Bending Radius Full load (mm)	Overall Diameter (mm)	Standard Pack Length (m)	Stock/ MTO	Max Drum Length (m)	Max Hauling Tension (N)
40013562	CABLE, BBA2-LL UNDERWATER, 144 FIBRE	144	3400	700	1045	34.8	-	МТО	Contact Prysmian	30000
40013563	CABLE, ULL UNDERWATER, 144 FIBRE	144	3400	700	1045	34.8	-	МТО	Contact Prysmian	30000
40013564	CABLE, BBA2-LL UNDERWATER, 360 FIBRE	360	3750	750	1120	37.3	-	MTO	Contact Prysmian	30000
40013565	CABLE, ULL UNDERWATER, 360 FIBRE	360	3750	750	1120	37.3	-	МТО	Contact Prysmian	30000
40007901	CABLE, BBXS UNDERWATER, 720 FIBRE	720	4400	820	1230	41.0	-	MTO	Contact Prysmian	30000

Note: Overall diameter may vary from the above nominal values between +/- 3mm



144 FIBRE UNDERWATER - FLEXTUBE®

(For Harbour, Lake, and River Crossing Applications)

Cable description:

Cable containing 144 optical fibres in multiple water blocked flexible modules (12 fibres per module), stranded with the interstices water blocked, polymer yarns helically laid over cable bundle, non-metallic glass reinforced plastic (GRP) strength members embedded in inner most polyethylene sheath. Corrugated steel tape armour, polyethylene inner sheath, two layers steel wire armour, water blocking jelly in interstices and polyethylene overall sheath.

Construction details:

Number of elements: 12

Tube/Fibre identification: Colour coded

Fibre protection: Thin walled thermoplastic Water blocking: Thixotropic gel (modules)

Water swellable yarns (interstices)
Water swellable tape (under CST)

Water swellable jelly (armour interstices)

Peripheral strength member: Polymer yarns

Embedded strength member: Diametrically opposed glass

reinforced plastic

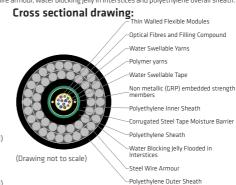
Inner sheath: High Density Polyethylene (UV Stabilised)

Moisture barrier: Copolymer laminated steel tape

Sheath: Polyethylene

Armour: Double layer steel wires

Outer sheath: High Density Polyethylene (UV Stabilised)



Dimensions and mass:								
Overall cable diameter (nominal):	34.8 mm							
Mass (nominal):	3400kg/km							

Fibre characteristics:

BBA2-LL bend insensitive, low loss - In compliance with ITU-T recommendation C.657.A2 and IEC 60793-2-50 Category B-657.A2 ULL ultra low loss - In compliance with ITU-T recommendation C.654.C and IEC 60793-2-50 Category B-654.C

Mechanical and environmental performance:								
Minimum bending radius - No load	700mm							
Minimum bending radius - Full load	1045mm							
Maximum tensile strength - Short term	30000 N							
Maximum crush resistance – Short term	5000 N/10cm							
Maximum crush resistance – Long term	2000 N/10 cm							
Operating temperature range: From -10°C to + 70°C								

Optical fibre colours:											
Fibre 1	Fibre 2	Fibre 3	Fibre 4	Fibre 5	Fibre 6	Fibre 7	Fibre 8	Fibre 9	Fibre 10	Fibre 11	Fibre 12
Blue	Orange	Green	Brown	Grev	White	Red	Black	Yellow	Violet	Pink	Agua
Blue	Oralise	Green	DIUWII	urev	ii vviiite	Reu	DIALK	Yellow	VIOLET	PIIIK	BUUA

Module colours:											
Fibre 1	Fibre 2	Fibre 3	Fibre 4	Fibre 5	Fibre 6	Fibre 7	Fibre 8	Fibre 9	Fibre 10	Fibre 11	Fibre 12
Blue	Orange	Green	Brown	Grey	White	Red	Light Green	Yellow	Violet	Pink	Aqua

Specifications: Telstra Optical Fibre Cable; AS/CA S008 and IEC 60794 series
Telstra Material number: 40013562 and 40013563

The information contained in this data sheet is subject to normal manufacturing tolerances. Specifications are subject to change within the terms and conditions of the relevant Contract/Agreement.



360 FIBRE UNDERWATER - FLEXTUBE®

(For Harbour, Lake, and River Crossing Applications)

Cable description:

Cable containing 360 optical fibres in multiple water blocked flexible modules (12 fibres per module), stranded with the interstices water blocked, polymer yarns helically laid over cable bundle, non-metallic glass reinforced plastic (GRP) strength members embedded in inner most polyethylene sheath. aluminium/polyethylene laminated tape moisture barrier, polyethylene inner sheath, two layers steel wire armour, water blocking jelly in interstices and polyethylene overall sheath.

Construction details:

Number of elements: 30
Tube/Fibre identification: Colour coded

Fibre protection: Thin walled thermoplastic Water blocking: Thixotropic gel (modules)

Water swellable yarns (interstices)

Water swellable tape (under moisture barrier)

Water swellable jelly (armour interstices)

Peripheral strength member: Polymer yarns

Embedded strength member: Diametrically opposed glass

reinforced plastic

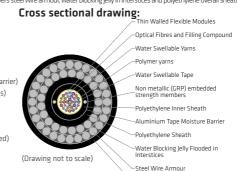
Overall cable

Inner sheath: High Density Polyethylene (UV Stabilised)
Moisture barrier: Copolymer laminated aluminium tape

Sheath: Polyethylene

Armour: Double layer steel wires

Outer sheath: High Density Polyethylene (UV Stabilised)



Polyethylene Outer Sheath

Dimensions and mass:	
diameter (nominal):	37.3mm
ss (nominal):	3750kg/km

Fibre characteristics:

BBA2-LL bend insensitive, low loss - In compliance with ITU-T recommendation G.657.A2 and IEC 60793-2-50 Category B-657.A2 ULL ultra low loss - In compliance with ITU-T recommendation G.654.C and IEC 60793-2-50 Category B-654.C

Mechanical and environmental performance:	
Minimum bending radius - No load	750mm
Minimum bending radius - Full load	1120mm
Maximum tensile strength - Short term	30000 N
Maximum crush resistance – Short term	5000 N/10cm
Maximum crush resistance – Long term	2000 N/10 cm
Operating temperature range: From -10°C to + 70°C	

					Optical fil	bre colours:					
Fibre 1	Fibre 2	Fibre 3	Fibre 4	Fibre 5	Fibre 6	Fibre 7	Fibre 8	Fibre 9	Fibre 10	Fibre 11	Fibre 12
Blue	Orange	Green	Brown	Grev	White	Red	Black	Yellow	Violet	Pink	Agua

					1	Module cold	ours:					
No.	1	2	3	4	5	6	7	8	9	10	11	12
Colour	Blue	Orange	Green	Brown	Grev	White	Red	Light green	Yellow	Violet	Pink	Agua
]		l i				1						
No.	13	14	15	16	17	18	19	20	21	22	23	24
Colour	Blue	Orange	Green	Brown	Grev	White	Red	Light green	Yellow	Violet	Pink	Agua
	TI II	II I	ll l		11	l II	ll l	الآ	II II			i i
No.	25	26	27	28	29	30						
Colour	Blue	Orange	Green	Brown	Grey	White						
	111	111	111	111	111	111						

Specifications: Telstra Optical Fibre Cable; AS/CA S008 and IEC 60794 series Telstra Material number: 40013564 and 40013565



720 FIBRE UNDERWATER - FLEXTUBE®

(For Harbour, Lake, and River Crossing Applications)

Cable description:

Cable containing 720 optical fibres in multiple water blocked flexible modules (12 fibres per module), stranded with the interstices water blocked, polymer yarns helically laid over cable bundle, non-metallic glass reinforced plastic (GRP) strength members embedded in inner most polyethylene sheath. Corrugated steel tape armour, polyethylene inner sheath, two layers steel wire armour, water blocking jelly in interstices and polyethylene overall sheath.

Construction details:

Number of elements: Tube/Fibre identification:

Colour coded

Fibre protection: Thin walled thermoplastic Water blocking: Thixotropic gel (modules)

Water swellable varns (interstices)

Water swellable tape (under CST) Water swellable jelly (armour interstices)

Peripheral strength member: Polymer yarns

Embedded strength member: Diametrically opposed glass

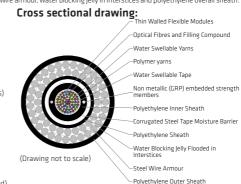
reinforced plastic

Inner sheath: Polyethylene (UV stabilised) Moisture barrier: Copolymer laminated steel tape

Sheath-Polyethylene

Armour: Double layer steel wires

Outer sheath: High Density Polyethylene (UV Stabilised)



Dimensions and mass:	
Overall cable diameter (nominal):	41.0mm
Mass (nominal):	4400kg/km

Fibre characteristics:

Single-mode 1310nm optimised, 200µm bend-insensitive: In compliance with ITU-T recommendation G.657.A2 and IEC 60793-2-50 Category B-657.A2

Mechanical and environmental performance:	
Minimum bending radius – No load	820mm
Minimum bending radius - Full load	1230mm
Maximum tensile strength – Short term	30000 N
Maximum crush resistance – Short term	5000 N/10cm
Maximum crush resistance – Long term	2000 N/10 cm
Operating temperature range: From -10°C to + 70°C	

					C	Optical fibre	colours:					
Fibre 1	Fibre				ore 5	Fibre 6	Fibre 7		Fibre 9	Fibre 10	Fibre 11	Fibre 12
Blue	Orang	e Greer	Bro\	vn I G	rev	White	Red	Black	Yellow	Violet	Pink .	Agua
						Module c	olours:					
No.	1	2	3	4	5	6	7	8	9	10	11	12
Colour	Blue	Orange	Green	Brown	Grey	White	Red	Light greer	1 Yellow	Violet	Pink	Aqua
No.	13	14	15	16	17	18	19	20	21	22	23	24
Colour	Blue	Orange	Green	Brown	Grey	White	Red	Light greer	1 Yellow	Violet	Pink	Aqua
	- 11	II II	- II	- 11	l II	II II	- 11	l II	l II	II	Ш	II II
No.	25	26	27	28	29	30	31	32	33	34	35	36
Colour	Blue	Orange	Green	Brown	Grey	White	Red	Light greer		Violet	Pink	Aqua
	111	111	111	111		111	111	111	- 111	- 111	- 111	101
No.	37	38	39	40	41	42	43	44	45	46	47	48
Colour	Blue	Orange	Green	Brown	Grey	White	Red	Light greer	1 Yellow	Violet	Pink	Aqua
	1111	HH	1111	1111	1111	1111		110	1111	1111	1111	100
No.	49	50	51	52	53	54	55	56	57	58	59	60
Colour	Blue	Orange	Green	Brown	Grey	White	Red	Light greer	n Yellow	Violet	Pink	Aqua
J												

Specifications: Telstra Optical Fibre Cable; AS/CA S008 and IEC 60794 series Telstra Material number: 40007901



Internal Tie SM@RTCORE® (LSOH)

Multi Loose-Tube optical fibre cables designed for intra-building cabling applications. Used within buildings and can be located in vertical riser shafts from the cable well to the main optical distribution frame (ODF) or from the main ODF to an intermediate optical distribution frame. Each loose tube containing up to 12 single mode fibres is filled with a low viscosity, non-melting gel to protect the fibres from external stresses. Fibre counts in the range of 12 to 144 are catered for with this construction. Each individual fibre is coloured within each tube for unambiguous identification. The cable is completed with the application of a zero halogen flame retardant low smoke and fume (LSOH) thermoplastic sheath that is suitable for installation within buildings due to its flame propagation limiting characteristics.





Telstra Material Number	Prysmian Material Description	Number of Fibres	Nominal Weight (kg/km)	Min. Bending Radius No load (mm)	Min Bending Radius Full load (mm)	Overall Diameter (mm)	Standard Pack Length (m)	Stock/ MTO	Max Drum Length (m)	Max Hauling Tension (N)
48462112	CABLE, SM INTERNAL, TIE 12 FIBRE	12	74	87	174	8.7	-	MTO	12000	2000
40013329	CABLE, ULL INTERNAL TIE, 12 FIBRE	12	74	87	174	8.7	-	МТО	12000	2000
48462172	CABLE, SM INTERNAL, TIE 72 FIBRE	72	77	87	174	8.7	1000	Stock	12000	2000
40013380	CABLE, ULL INTERNAL TIE, 72 FIBRE	72	77	87	174	8.7	1000	Stock	12000	2000
48462544	CABLE, SM INTERNAL, TIE 144 FIBRE	144	167	131	262	13.1	1000	Stock	12000	2500
40013381	CABLE, ULL INTERNAL TIE, 144 FIBRE	144	167	131	262	13.1	1000	Stock	12000	2500

Note: Overall diameter may vary from the above nominal values between +/- 0.7 mm



12 to 72 FIBRES INTERNAL TIE - SM@RTCORE®

Cable description:

Cable containing up to 72 optical fibres in water blocked loose tubes (12 fibres per tube) and solid plastic fillers laid-up around a glass reinforced plastic (GRP) central strength member, dry core and LSOH (flame retardant, low smoke generation, low toxic gas emission and zero halogen) thermoplastic overall sheath.

Construction details:

Number of elements:

Tube/Fibre identification: Colour coded

Central strength member: Glass reinforced plastic (GRP)
Fibre protection (tubes): Polybutylene terephthalate (PBT)

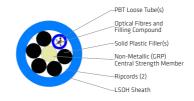
Fillers (solid plastic): As required

Water blocking: Thixotropic gel (tubes)

Sheath: LSOH - Blue for all cables except those using ULL fibre. ULL cable comprises a

pink sheath

Cross sectional drawing:



(Drawing not to scale)

Dimensions and mass:	
Overall cable diameter (nominal):	8.7 mm
Mass (nominal):	74 - 77 kg/km

Fibre characteristics:

G.652.D - In compliance with ITU-T recommendation G.652.D and IEC 60793-2-50 Category B-652.D ULL ultra low loss - In compliance with ITU-T recommendation G.654.C and IEC 60793-2-50 Category B-654.C

Note: Other fibres are available upon request

Mechanical and environmental performance:							
Minimum bending radius - No load	87 mm						
Minimum bending radius - Full load	174 mm						
Maximum tensile strength – Short term	2000 N						
Maximum crush resistance – Short term	1000 N/10cm						
Maximum crush resistance – Long term 500 N/10cm							
Operating temperature range: From 0°C to + 60°C							

				Opt	ical fibre an	ıd tube colo	urs:				
Fibre 1 Tube 1	Fibre 2 Tube 2	Fibre 3 Tube 3	Fibre 4 Tube 4	Fibre 5 Tube 5	Fibre 6 Tube 6	Fibre 7	Fibre 8	Fibre 9	Fibre 10	Fibre 11	Fibre 12
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Specifications: Telstra Optical Fibre Cable; AS/CA S008 and IEC 60794 series Telstra Material numbers: 48462112, 40013329, 48462172 and 40013380



144 FIBRES INTERNAL TIE - SM@RTCORE®

Cable description:

Cable containing 144 optical fibres in water blocked loose tubes (12 fibres per tube) laid-up around a polyethylene covered glass reinforced plastic (GRP) central strength member, dry core and LSOH (flame retardant, low smoke generation, low toxic gas emission and zero halogen) thermoplastic overall sheath.

Construction details:

Number of elements:

Tube/Fibre identification: Colour coded

Central strength member: Glass reinforced plastic (GRP) Fibre protection (tubes): Polybutylene terephthalate (PBT)

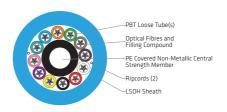
Water blocking: Thixotropic gel (tubes)

Sheath: LSOH - Blue for all cables except those

using ULL fibre. ULL cable comprises a

pink sheath

Cross sectional drawing:



(Drawing not to scale)

Dimensions and mass:	
Overall cable diameter (nominal):	13.1 mm
Mass (nominal):	167 kg/km

Fibre characteristics:

G.652.D - In compliance with ITU-T recommendation G.652.D and IEC 60793-2-50 Category B-652.D ULL ultra low loss - In compliance with ITU-T recommendation G.654.C and IEC 60793-2-50 Category B-654.C

Note: Other fibres are available upon request

Mechanical and environmental performance:							
Minimum bending radius - No load	131 mm						
Minimum bending radius - Full load	262 mm						
Maximum tensile strength – Short term	2500 N						
Maximum crush resistance – Short term	1000 N/10cm						
Maximum crush resistance - Long term	500 N/10cm						
Operating temperature range: From 0°C to + 60°C							

	Optical fibre and tube colours:										
Fibre 1 Tube 1											
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Specifications: Telstra Optical Fibre Cable; AS/CA S008 and IEC 60794 series
Telstra Material number: 48462544 and 40013381



Internal Riser Customer Premises

Riser cable is designed for installation in riser shafts running between floors of a building or other applications where the cable is to be run vertically. Used in Local Area Networks (LAN) applications including Fibre Distribution Data Interface (FDDI). This type of cable is also suitable for installation in external environments. such as between buildings in a campus network, where the attributes of a small flexible cable with tight buffered fibres, capable of direct connectorisation, are important. Fibre counts in the range of 12 to 24 are available with individual fibre protection provided by means of a tight jacket of 0.9mm diameter, allowing an optical connector to be fitted directly. The individual fibres are then stranded into a compact core along with a combination of standard and water blocking aramid (Keylar) varns to provide the core with the required strength, cushioning and water blocking performance. The cable is finished with the application of a zero halogen flame retardant low smoke and fume (LSOH) thermoplastic sheath that is suitable for installation within buildings due to its flame propagation limiting characteristics.





Telstra Material Number	Prysmian Material Description	Number of Fibres	Nominal Weight (kg/ km)	Min. Bending Radius No load (mm)	Min Bending Radius Full load (mm)	Overall Diameter (mm)	Standard Pack Length (m)	Stock/ MTO	Max Drum Length (m)	Max Hauling Tension (N)
48492112	12F SM IND/ OUTDOOR RISER BLUE	12	33	62	124	6.2	-	МТО	2000	600
48492124	24F SM IND/ OUTDOOR RISER BLUE	24	61	88	176	8.8	-	МТО	2000	1100
48392312	12F M50E OM5 / OUTDOOR RISER AQUA	12	53	62	124	6.2	-	МТО	2000	600
48392324	24F M50E OM5 / OUTDOOR RISER AQUA	24	61	88	176	8.8	-	МТО	2000	1100

Note: Overall diameter may vary from the above nominal values between +/- 0.5mm



12 to 24 FIBRE INDOOR / OUTDOOR LIGHT DUTY RISER OPTICAL CABLE

Cable description:

The cable consists of 12 to 24 fibres of 900µm tight buffered optical fibres reinforced with water swellable aramid yarns and sheathed with LSDH (flame retardant, low smoke generation, low toxic gas emission and zero halogen) compound. For Local Area Networks (LAN) applications including Fibre Distribution Data Interface (FDDI). Cable is suitable for wideband applications in customer premises in indoor and outdoor installations.

Note: Cable meets the water penetration test as per IEC 60794-1-2-F 5C as specified in AS/CA S008

Construction details:

Number of elements: 12 or 24 Fibre identification: Colour coded

Fibre Insulation: Tight Buffered Polymer
Reinforcing: Water Swellable Aramid Yarns
Sheath: LSOH - UV resistant (Blue)

Cross sectional drawing:



(Drawing not to scale)

Dimensions and mass:		
Fibre count	12	24
Overall cable diameter (nominal):	6.2mm	8.8 mm
Mass (nominal):	33 kg/km	61 kg/km

Fibre characteristics:

G.652.D - In compliance with ITU-T recommendation G.652.D and IEC 60793-2-50 Category B-652.D OM5 - In compliance with ITU-T recommendation G651 and IEC 60793-2-10 Category A1-OM5

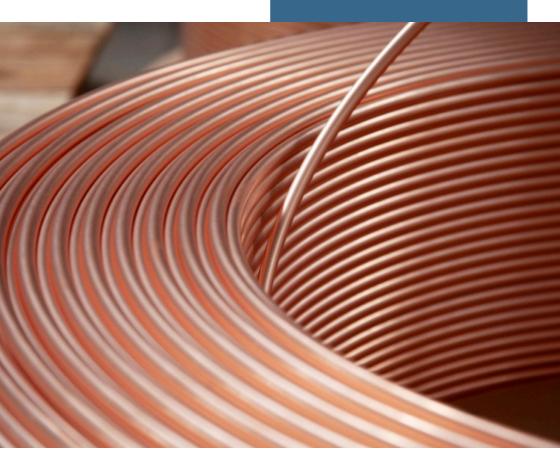
Mechanical an	Mechanical and environmental performance:								
Fibre Count	12	24							
Minimum bending radius- No load [mm]	62	88							
Minimum bending radius- Full load [mm]	124	176							
Maximum tensile strength – Short term [N]	600	1100							
Crush resistance – Short term [N/100mm]	500								
Crush resistance – Long term [N/100mm]	30	00							
Operating temperature range [°C]	-10 to + 70								
Serial / Item numbers	48492112 and 48392312	48492124 and 48392324							

Flame Resistance: AS/NZS IEC 60332.1 Vertical flame propagation for single cable AS/NZS IEC 60332.3.24 Vertical flame propagation for single bunched cables - Category C

	Tight buffered optical fibre colours:											
Fibre 1	Fibre 2	Fibre 3	Fibre 4	Fibre 5	Fibre 6	Fibre 7	Fibre 8	Fibre 9	Fibre 10	Fibre 11	Fibre 12	
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua	
Fibre 13	Fibre 14	Fibre 15	Fibre 16	Fibre 17	Fibre 18	Fibre 19	Fibre 20	Fibre 21	Fibre 22	Fibre 23	Fibre 24	
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua	

Specifications: Telstra Optical Fibre Cable; ISO/IEC 11801; AS/CA S008 and IEC 60794 series Telstra Material Number: 48492112; 48492124; 48392312; and 48392324

Metallic Cables



IB Cables

Integral Bearer (IB) cables are used in locations where the Customer Access Network (CAN)

is installed aerially rather than underground; typically in metropolitan locations where underground conduits are non-existent and in rural areas. Insulation is by means of solid polyethylene that provides a higher voltage breakdown strength (better lightning resistance) compared with underground distribution cables.

Single wires are twisted into pairs and subsequently 10 pair units in the same way as underground cables. The cable core is un-filled (no grease) since it will never be submerged below the water table and therefore does not require any longitudinal protection against moisture permeation. A black UV resistant polvethylene overall sheath is applied, into which is incorporated a galvanised high tensile steel bearer wire in a "figure of eight" configuration. Special fittings are available in various sizes to clamp the wire at the ends and intermediate points of a run to support the cable on the poles.





Telstra Material Number	Prysmian Material Description	Number of Pairs	Nominal weight (kg/km)	Min Bending Diameter (mm)	Overall Diameter (mm)	Standard Pack Length (m)	Stock/ MT0	Nominal Drum Dimensions (mm)	Max Hauling Tension (N)
46505241	CABLE, TEL EXT 10/0.64MM PEIUT IB	10	165	210	10.4 x 16.5	500	Stock	LW1 - 600/250/480	2000
46505243	CABLE, TEL EXT 30/0.64MM PEIUT IB	30	390	340	16.7 x 24.8	500	6-10 Weeks	LW3 - 1000/350/600	3500
46505244	CABLE, TEL EXT 50/0.64MM PEIUT IB	50	570	420	21.0 x 29.4	500	6-10 Weeks	LW5 - 1250/450/600	3500
46505246	CABLE, TEL EXT 100/0.64MM PEIUT IB	100	1080	590	29.2 x 39.9	500	6-10 Weeks	0F6 - 1600/800/800	5800



10 to 100 PAIR SELF SUPPORTED AERIAL CABLE - INTEGRAL BEARER (FIGURE 8)

(For aerial self-supporting applications)

Cable description:

Cable consists of a number of plain annealed copper conductors (0.64mm), solid polyethylene insulated, twinned, bunched into 10 pair units, units laid up, taped, aluminium/polyethylene terephthalate screened with a 0.50mm tinned copper drain wire and polyethylene overall sheathed cable incorporating a galvanised steel wire integral bearer in "figure 8" construction.

Construction details:

Conductor: Plain annealed copper Insulation: Solid polyethylene Cabling element: Twisted pair

Wrapping: Polyethylene terephthalate tape
Drain wire: Tinned annealed copper 0.5mm

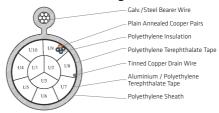
nominal diameter

Screen: Aluminium/polyethylene

terephthalate tape

Bearer wire: Galvanised steel wire
Outer sheath: Polyethylene (UV stabilised)

Cross sectional drawing:



100 Pair 0.64mm PEIUT IB (Drawing not to scale)

Electrical characteristics*:	Conductor size				
EIELLFILAI LIIAFALLEFISLICS ;	0.64 mm				
Maximum conductor resistance [Ω/km]	56.4				
Minimum insulation resistance [M Ω .km]	40000				
Mutual capacitance - maximum average [nF/km]	52				
Max. capacitance unbalance** Pair-Pair (Corrected to 1000m length) [pF]	37				
Max. capacitance unbalance Pair-Earth (Corrected to 1000m length) [pF]	600 (30, 50 & 100 Pair) 800 (10 Pair)				

^{*}Note: All electrical characteristics are given at 20°C

^{**}Note: Corresponds to the exponentially smoothed average

	Mechanical / physical characteristics:										
Cable size Number of pairs/ Diameter	s/ Material Number										
10 / 0.64	46505241	1/2.50	10.4 x 16.5	165	210	2.0					
30 / 0.64	46505243	7/1.25	16.7 x 24.8	390	340	3.5					
50 / 0.64	46505244	7/1.25	21.0 x 29.4	570	420	3.5					
100 / 0.64	46505246	7/1.60	29.2 x 39.9	1080	590	5.8					
		Operating temp	erature range [°C]: F	rom - 10 to + 70							

Specifications: Telstra PEIUT IB; AS/CA S008; AS/NZS 1125 and AS 1049



Distribution / Gel Filled

Distribution Cable forms the basis of underground Customer Access Network (CAN) connections from the pillar to the final joint adjacent to the customer's premises. Insulation is foam (cellular) polyethylene to give the appropriate electrical characteristics for long transmission distances and different conductor sizes are available to cover various applications.

Typically 0.40mm conductors are used in metropolitan installations where distances are short and 0.64 and 0.90mm conductors are used in rural situations where longer distances are required. Single wires are twisted into pairs and then bunched together into 10 pair units which form the basic building block for cables up to 400 pairs. Protection against longitudinal moisture permeation is afforded by fully filling the cable interstices with a semi-dry gel. All cables have an overall sheath of black polyethylene with the options on some of incorporating a Nylon jacket for termite resistance and an aluminium MB tape for added moisture and lightning protection in rural applications. All cables up to 100 pair have the nylon jacket intrinsically bonded to the polyethylene sheath.

All types may be installed in underground conduits, ducts or directly buried.





Telstra Material Number	Prysmian Material Description	Number of Pairs	Nominal Weight (kg/ km)	Min. Bending Diameter (mm)	Overall Diameter (mm)	Standard Pack Length (m)	Stock/ MTO	Nominal Drum Dimensions (mm)	Max Hauling Tension (N)
46705021	CABLE, TEL EXT 10/0.40 CPFUT PE	10	50	115	7.1	1000	Stock	LW1 - 600/250/480	240
46708121	CABLE, TEL EXT 10/0.40 CPFUT PEHJC	10	57	155	7.6	1000	Stock	LW1 - 600/250/480	240
46705023	CABLE, TEL EXT 30/0.40 CPFUT PE	30	130	180	11.1	1000	Stock	LW2 - 750/250/600	720
46708123	CABLE, TEL EXT 30/0.40 CPFUT PEHJC	30	140	235	11.6	1000	Stock	LW2 750/250/600	720
46705024	CABLE, TEL EXT 50/0.40 CPFUT PE	50	200	215	13.4	1000	Stock	LW3 - 1000/350/600	1200
46708124	CABLE, TEL EXT 50/0.40 CPFUT PEHJC	50	210	280	14.0	1000	Stock	LW3 - 1000/350/600	1200
46705026	CABLE, TEL EXT 100/0.40 CPFUT PE	100	375	290	18.1	1000	Stock	LW4 - 1100/400/600	2400
46708226	CABLE, TEL EXT 100/0.40 CPFUT MBHJC	100	400	370	18.5	1000	Stock	LW4 - 1100/400/600	2400
46709226	CABLE, TEL EXT 100/0.40 CPFUT MBHJC (AIR TUBE)	100	440	420	20.9	1000	Stock	STEEL - 1200/600/1000	2400
46709228	CABLE, TEL EXT 200/0.40 CPFUT MBHJ (AIR TUBE)	200	755	490	24.6	1000	Stock	STEEL - 1200/600/1000	4800
46709230	CABLE, TEL EXT 400/0.40 CPFUT MBHJ (AIR TUBE)	400	1430	670	33.7	500	6-10 Weeks	STEEL - 1800/1000/900	9600
46708241	CABLE, TEL EXT 10/0.64 CPFUT MBHJC	10	125	210	10.5	1000	Stock	LW2 - 750/250/600	600
46708243	CABLE, TEL EXT 30/0.64 CPFUT MBHJC	30	295	320	15.8	1000	Stock	LW3 - 1000/350/600	1800
46708244	CABLE, TEL EXT 50/0.64 CPFUT MBHJC	50	470	400	19.8	1000	Stock	LW5 - 1250/450/600	3100
46708246	CABLE, TEL EXT 100/0.64 CPFUT MBHJC	100	890	540	27.0	1000	Stock	STEEL - 1600/800/900	6100
46709246	CABLE, TEL EXT 100/0.64 CPFUT MBHJC (AIR TUBE)	100	900	540	27.0	1000	Stock	STEEL - 1600/800/900	6100
46709248	CABLE, TEL EXT 200/0.64 CPFUT MBHJ (AIR TUBE)	200	1640	690	34.5	1000	Stock	STEEL - 2000/1200/1000	12200
46709250	CABLE, TEL EXT 400/0.64 CPFUT MBHJ (AIR TUBE)	400	3225	985	49.2	500	6-10 Weeks	STEEL - 2400/1200/1000	24500
46708261	CABLE, TEL EXT 10/0.90 CPFUT MBHJC	10	225	290	14.4	1000	12 Weeks	LW3 - 1000/350/600	1200
46708263	CABLE, TEL EXT 30/0.90 CPFUT MBHJC	30	590	460	23.0	500	12 Weeks	STEEL - 1200/600/1000	3600
46708264	CABLE, TEL EXT 50/0.90 CPFUT MBHJ	50	905	530	26.5	500	12 Weeks	STEEL - 1600/800/900	6100
46708266	CABLE, TEL EXT 100/0.90 CPFUT MBHJ	100	1710	720	36.0	500	12 Weeks	STEEL - 2000/1200/1000	12000



10 to 100 PAIR 0.40MM EXTERNAL CABLE - UNSCREENED

(For external underground applications)

Cable description:

Cable consists of up to 100 pairs of 0.40mm diameter plain annealed copper conductors, cellular polyethylene insulated, twinned, bunched into 10 pairs units, units laid up, semi-dry gel filled interstices, taped and polyethylene overall sheathed.

Construction details:

Conductor: Plain annealed copper Insulation: Cellular polyethylene Cabling element: Twisted pair

Water blocking: Semi-dry gel (interstices)

Wrapping: Polyethylene terephthalate or paper tape

Outer sheath: Polyethylene (UV Stabilised)

Cross sectional drawing:



100 Pair/0.40mm CPFUT PE (Drawing not to scale)

Electrical characteristics*:	
Maximum conductor resistance $[\Omega/km]$	139.3
Minimum insulation resistance [MΩ.km]	20000
Mutual capacitance - maximum average [nF/km]	49
Max. capacitance unbalance** Pair-Pair (Corrected to 1000m length) [pF]	70

^{*}Note: All electrical characteristics are given at 20°C

^{**}Note: Corresponds to the exponentially smoothed average

	Mechanical / physical characteristics:										
Cable size Number of pairs / Diameter	Material Number	Nominal Diameter (mm)	Nominal Weight (kg/km)	Minimum Bend Diameter (mm)	Maximum Tensile Strength (N)						
10 / 0.40	46705021	7.1	50	115	240						
30 / 0.40	46705023	11.1	130	180	720						
50 / 0.40	46705024	13.4	200	215	1200						
100 / 0.40	46705026	18.1	375	290	2400						
	Operating temperature range [°C]: From - 10 to + 70										

Specifications: Telstra CPFUT; AS/CA S008; AS/NZS 1125 and AS 1049



10 to 100 PAIR EXTERNAL CABLE - SCREENED HARD JACKETED

(For external underground applications)

Cable description:

Cable consists of a number of plain annealed copper conductors (0.40mm, 0.64mm or 0.9mm diameter), cellular polyethylene insulated, twinned, bunched into 10 pair units, units laid up, semi-dry gel filled interstices, taped, aluminium polylaminated moisture barrier, polyethylene overall sheathed and intrinsically bonded nylon jacketed.

Construction details:

Conductor: Plain annealed copper Insulation: Cellular polyethylene

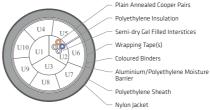
Cabling element: Twisted pair

Water blocking: Semi-dry gel (interstices)
Wrapping: Polyethylene terephthalate tape
Moisture barrier: Aluminium/Polyethylene

laminated tape

Sheath: Polyethylene (UV Stabilised)
Jacket: Nylon (UV Stabilised)

Cross sectional drawing:



100 Pair CPFUT MBHJC (Drawing not to scale)

	Conductor size (mm)				
Electrical characteristics*:	0.40	0.64	0.90		
Maximum conductor resistance [Ω/km]	139.3	56.4	27.9		
Minimum insulation resistance [M Ω .km]	20000	20000	20000		
Mutual capacitance - maximum average [nF/km]	49	49	49		
Max. capacitance unbalance** Pair-Pair (Corrected to 1000m length) [pF]	70	37	32		

^{*}Note: All electrical characteristics are given at 20°C

^{**}Note: Corresponds to the exponentially smoothed average

Mechanical / physical characteristics:								
Cable size Number of pairs/ Diameter	Material Number	Nominal Diameter (mm)	Nominal Weight (kg/km)	Minimum Bend Diameter (mm)	Maximum Tensile Strength (N)			
100 / 0.40	46708226	18.5	400	370	2400			
10 / 0.64	46708241	10.5	125	210	600			
30 / 0.64	46708243	15.8	295	320	1800			
50 / 0.64	46708244	19.8	470	400	3100			
100 / 0.64	46708246	27.0	890	540	6100			
10 / 0.90	46708261	14.4	225	290	1200			
30 / 0.90	46708263	23.0	590	460	3600			
50 / 0.90*	46708264	26.5	905	530	6100			
100 / 0.90*	46708266	36.0	1710	720	12000			
			[05] 5 40.					

Operating temperature range [°C]: From - 10 to + 70

Specifications: Telstra CPFUT; AS/CA S008; AS/NZS 1125 and AS 1049

^{*}Note: Bonded nylon is not available for these items



10 to 50 PAIR 0.40MM EXTERNAL CABLE - UNSCREENED HARD JACKETED

(For external underground applications)

Cable description:

Cable consists of up to 50 pairs of 0.40mm diameter plain annealed copper conductors, cellular polyethylene insulated, twinned, bunched into 10 pair units, units laid up, semi-dry gel filled interstices, taped, polyethylene overall sheathed and intrinsically bonded nylon jacketed.

Construction details:

Conductor: Plain annealed copper Cellular polyethylene Insulation: Twisted pair Cabling element:

Water blocking: Semi-dry gel (interstices) Wrapping: Polyethylene terephthalate or paper tape

Polyethylene (UV Stabilised) Sheath:

Nylon (UV Stabilised) Jacket:

Cross sectional drawing:



30 Pair CPFUT PEHIC (Drawing not to scale)

Electrical characteristics*	
Maximum conductor resistance [Ω/km]	139.3
Minimum insulation resistance [M Ω .km]	20000
Mutual capacitance - maximum average [nF/km]	49
Max. capacitance unbalance** - Pair to pair (corrected to 1000m length) [pF]	70

^{*}Note: All electrical characteristics are given at 20°C

^{**}Note: Corresponds to the exponentially smoothed average

Mechanical / physical characteristics:							
Cable size Number of pairs/Diameter	Material Number	Nominal Diameter (mm)	Nominal Weight (kg/km)	Minimum Bend Diameter (mm)	Maximum Tensile Strength (N)		
10 / 0.40	46708121	7.6	55	155	240		
30 / 0.40	46708123	11.6	140	235	720		
50 / 0.40	46708124	14.0	210	280	1200		
Operating temperature range [°C]: From - 10 to + 70							

Specifications: Telstra CPFUT; AS/CA S008; AS/NZS 1125 and AS 1049



100 PAIR EXTERNAL CABLE WITH AIRTUBE - SCREENED HARD JACKETED

(For external underground applications)

Cable description:

Cable consists of a number of plain annealed copper conductors (0.40mm or 0.64mm), cellular polyethylene insulated, twinned, bunched into 10 pair units, units laid up, semi-dry gel filled interstices, taped, aluminium polylaminated moisture barrier, polyethylene overall sheathed and integrally bonded nylon jacketed. Cable is fitted with a polyethylene tube running along its central axis for pressurized air flow.

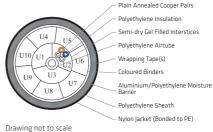
Construction details:

Conductor: Plain annealed copper Insulation: Cellular polyethylene Cabling element: Twisted pair

Water blocking: Semi-dry gel (interstices) Polyethylene 6/8mm ID/OD Airtube: Polyethylene terephthalate tape Wrapping: Moisture barrier: Aluminium/Polyethylene laminated tape

Polyethylene (UV Stabilised) Sheathlacket: Nylon (UV Stabilised)

Cross sectional drawing:



Electrical characteristics*:	Conductor Size [mm]			
EIELLFILAI LIIAFALLEFISIILS ;	0.40	0.64		
Maximum conductor resistance [Ω/km]	139.3	56.4		
Minimum insulation resistance [M Ω .km]	20000	20000		
Mutual capacitance - maximum average [nF/km]	49	49		
Max. capacitance unbalance** Pair-Pair (Corrected to 1000m length) [pF]	70	37		

^{*}Note: All electrical characteristics are given at 20°C

^{**}Note: Corresponds to the exponentially smoothed average

Mechanical / physical characteristics:								
Cable size Number of pairs/Diameter	Material Number	Nominal Diameter (mm)	Nominal Weight (kg/km)	Minimum Bend Diameter (mm)	Maximum Tensile Strength (N)			
100 / 0.40	46709226	20.9	440	420	2400			
100 / 0.64*	46709246	27.0	900	540	6100			
	Operating temperature range [°C]: From - 10 to + 70							

^{*}Note: Bonded nylon is not available for this item

Specifications: Telstra CPFUT; AS/CA S008; AS/NZS 1125 and AS 1049



200 & 400 PAIR EXTERNAL CABLE WITH AIRTUBE – SCREENED HARD IACKETED

(For external underground applications)

Cable description:

Cable consists of a number of plain annealed copper conductors (0.40mm or 0.64mm), cellular polyethylene insulated, twinned, bunched into 10 pair sub-units then into (50 or 100) pair units, units laid up, semi-dry gel filled interstices, taped, aluminium polylaminated moisture barrier, polyethylene overall sheathed and nylon jacketed. Cable is fitted with a polyethylene tube running along its central axis for pressurized air flow.

Construction details:

Conductor: Plain annealed copper Insulation: Cellular polyethylene Cabling element: Twisted pair

Water blocking: Semi-dry gel (interstices)
Wrapping: Polyethylene terephthalate tape
Airtube: Polyethylene 6/8mm ID/OD
Moisture barrier: Aluminium/Polyethylene laminated tape

Sheath: Polyethylene (UV Stabilised)

Hard jacket: Nylon (UV Stabilised)

Cross sectional drawing:



400 Pair Shown (Drawing not to scale)

Electrical characteristics*:	Conductor	Conductor Size [mm]			
EIELLIILAI LIIAFALLETISIILS :	0.40	0.64			
Maximum conductor resistance [Ω/km]	139.3	56.4			
Minimum insulation resistance [M Ω .km]	20000	20000			
Mutual capacitance - maximum average [nF/km]	49	49			
Max. capacitance unbalance** Pair-Pair (Corrected to 1000m length) [pF]	70	37			

^{*}Note: All electrical characteristics are given at 20°C

^{**}Note: Corresponds to the exponentially smoothed average

Mechanical / physical characteristics:								
Cable size Number of pairs/ Diameter	Material Number	Nominal Diameter (mm)	Nominal Weight (kg/km)	Minimum Bend Diameter (mm)	Maximum Tensile Strength (N)			
200 / 0.40	46709228	24.6	755	490	4800			
400 / 0.40	46709230	33.7	1430	670	9600			
200 / 0.64	46709248	34.5	1640	690	12200			
400 / 0.64	46709250	49.2	3225	985	24500			
	Operating temperature range [°C]: From - 10 to + 70							

Specifications: Telstra CPFUT; AS/CA S008; AS/NZS 1125 and AS 1049



Distribution / Dry Core

Distribution cable is the most dense part of the Customer Access Network having pair counts up to 1200 and forms the main feed from an exchange to the first pillar, out towards the customer. Mostly cable in this segment of the network is protected from the ingress of moisture by means of air pressurisation. Alternatively, for areas that do not have pressurisation plant available, gel filled cables to 800 pair are available. Typically 0.40mm conductors are used in metropolitan installations where distances are short, with some 0.64mm conductors used in rural situations or where longer distances are required. Single wires are insulated with foam (cellular) polyethylene to give the appropriate electrical characteristics. twisted into pairs, bunched into 10 pair sub-units and then laid-up into 50 and 100 pair units to form the basic building block for cables up to 1200 pairs or more. All cables have a black UV stabilised polyethylene overall sheath that incorporates a longitudinal aluminium moisture barrier to provide improved security to air pressurisation. Some cables may be fitted with a nylon anti-termite jacket if required. This group of cables is installed almost exclusively in underground conduits.





Telstra Material Number	Prysmian Material Description	Number of Pairs	Nominal weight (kg/ km)	Min. Bending Diameter (mm)	Overall Diameter (mm)	Standard Pack Length (m)	Stock/ MTO	Nominal Drum Dimensions (mm)	Max Hauling Tension (N)
47707025	CABLE, TEL EXT 800/0.40 CPEIUT MB	800	2455	700	43.6	100	6-10 Weeks	STEEL - 2000/1200/1000	19000
47707027	CABLE, TEL EXT 1200/0.40 CPEIUT MB	1200	3610	840	52.4	100	6-10 Weeks	STEEL - 2000/1200/1000	29000
47707045	CABLE, TEL EXT 800/0.64 CPEIUT MB	800	5815	1060	66.0	100	6-10 Weeks	STEEL -	40000



800 to 1200 PAIR EXTERNAL UNFILLED CABLE - SCREENED

(For external underground applications)

Cable description:

Cable consists of a number of plain annealed copper conductors, cellular polyethylene insulated, twinned, bunched into 10 pair sub-units then into 50 or 100 pair units, units laid up, taped, aluminium polylaminated moisture barrier and polyethylene overall sheathed.

Construction details:

Conductor: Plain annealed copper Insulation: Cellular polyethylene

Cabling element: Twisted pair

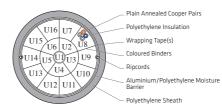
Wrapping: Polyethylene terephthalate and paper tapes

Moisture barrier: Aluminium/Polyethylene

laminated tape

Sheath: Polyethylene (UV Stabilised)

Cross sectional drawing:



800 Pair CPEIUT MB (Drawing not to scale)

	Conductor Size [mm]			
Electrical characteristics*:	0.40 mm	0.64 mm		
Maximum conductor resistance $[\Omega/km]$	139.3	56.4		
Minimum insulation resistance [M Ω .km]	20000			
Mutual capacitance - maximum average [nF/km]	49			
Max. capacitance unbalance** Pair-Pair (Corrected to 500m length) [pF]	235	190		

^{*}Note: All electrical characteristics are given at 20°C

^{**}Note: Corresponds to the exponentially smoothed average

Mechanical / physical characteristics:							
Cable size Number of pairs/Diameter	Material Number	Nominal Diameter (mm)	Nominal Weight (kg/km)	Minimum Bend Diameter (mm)	Maximum Tensile Strength (N)		
800 / 0.40	47707025	43.6	2455	700	19000		
1200 / 0.40	47707027	52.4	3610	840	29000		
800 / 0.64	47707045	66.0	5815	1060	40000		

Operating temperature range [°C]: From - 10 to + 70

Specifications: Telstra CPEIUT; AS/CA S008; AS/NZS 1125 and AS 1049



Lead-In

Lead-in cable is used for the last drop from the access network to the customer's house.

The cable has two polyethylene insulated pairs, depending upon the application, and has similar transmission characteristics to the corresponding ranges of Distribution Cable.

Lead-in cables are available for installation either underground or aerially. Typically in metropolitan applications the lead-in is quite short, simply running from a street distribution cable to the first socket in the customer's premises that forms the network boundary.

However, in rural installations lead-in cables may be run for many kilometres in situations where a single dwelling is located a long distance from the road. In this circumstance the 2 pair 0.64mm conductor cable with Nylon termite resistant jacket is utilised.





Telstra Material Number	Prysmian Material Description	Number of Pairs	Nominal Weight (kg/ km)	Min. Bending Diameter (mm)	Overall Diameter (mm)	Standard Pack Length (m)	Stock/ MTO	Nominal Drum Dimensions (mm)	Max Hauling Tension (N)
49005023	CABLE, TEL LEAD-IN 2/0.40 PEIFLI PE	2	18.5	80	4.6	500	Stock	REELEX - 415/415/225 (MAGENTA)	50
49008123	CABLE, TEL LEAD-IN 2/0.40 PEIFLI PEHJC		19.5	100	4.7	500	Stock	1xREEL (338/102/230), CRTN (340/340/245)	50
49005741	CABLE, TEL LEAD-IN 2/0.64 PEILI PEIB	2	38	100	4.4 x 7.9	500	Stock	1xREEL (338/102/230), CRTN (340/340/245)	1000
49008142	CABLE, TEL LEAD-IN 2/0.64MM CPFLI PEHJC	2	35	100	6.2	500	Stock	1xREEL (422/102/306), CRTN (435/435/320)	120



2 PAIR 0.40MM EXTERNAL GEL FILLED LEAD-IN CABLE

(For external underground applications)

Cable description:

Cable consists of 2 pairs 0.4mm diameter plain annealed copper conductors, solid polyethylene insulated, twinned pairs, semi-dry gel filled interstices, polyethylene sheathed and intrinsically bonded nylon jacketed (Alternative).

Construction details:

Conductor: Plain annealed copper - 0.4mm

Insulation: Solid polyethylene Cabling element: Twisted pairs

Water blocking: Semi-dry gel (interstices)
Sheath: Polyethylene (UV Stabilised)
Jacket (Alternative): Nylon (UV Stabilised)

Cross sectional drawing:



2 Pair PEFLI PEHJ (Drawing not to scale)

Electrical characteristics*:	
Maximum conductor resistance $[\Omega/km]$	139.3
Minimum insulation resistance [MΩ.km]	40000
Mutual capacitance - maximum [nF/km]	48
Max. capacitance unbalance (corrected to 1000m length) – Pair to pair [pF]	1200

^{*}Note: All electrical characteristics are given at 20°C

Mechanical / physical characteristics:								
Cable size Number of pairs/Diameter	Material Number	Nominal Diameter (mm)	Nominal Weight (kg/km)	Minimum Bend Diameter (mm)	Maximum Tensile Strength (N)			
2	49005023	4.6	18.5	80	50			
2 (Hard jacket)	49008123	4.7	19.5	100	50			
Operating temperature range [°C]: From - 10 to + 70								

Specifications: Telstra PEIFLI and CPFLI; AS/CA S008; AS/NZS 1125 and AS 1049



2 PAIR 0.64MM EXTERNAL JELLY FILLED LEAD-IN CABLE – HARD IACKETED

(For external underground applications)

Cable description:

Cable consists of 2 pairs 0.64mm diameter plain annealed copper conductors, cellular polyethylene insulated, twisted quad, semi-dry gel filled interstices, polyethylene sheathed and intrinsically bonded nylon jacketed.

Construction details:

Conductor: Plain annealed copper - 0.64mm

Insulation: Cellular polyethylene

Cabling element: Quad

Water blocking: Semi-dry gel (interstices)
Sheath: Polyethylene (UV Stabilised) - Black
Jacket: Nylon (UV Stabilised) - Black

Cross sectional drawing:



2 Pair CPFLI PEHIC (Drawing not to scale)

Electrical characteristics*:	
Maximum conductor resistance $[\Omega/km]$	56.4
Minimum insulation resistance [MΩ.km]	20000
Mutual capacitance - maximum [nF/km]	48
Max. capacitance unbalance** (corrected to 1000m length) - Pair to pair [pF]	100

^{*}Note: All electrical characteristics are given at 20°C

^{**}Note: Corresponds to the exponentially smoothed average

Mechanical / physical characteristics:									
Cable size Number of pairs/ Diameter	Material Number	Nominal Diameter (mm)	Nominal Weight (kg/km)	Minimum Bend Diameter (mm)	Maximum Tensile Strength (N)				
2 / 0.64	49008142	6.2	35	100	120				
Operating temperature range [°C]: From - 10 to + 70									

Specifications: Telstra PEIFLI and CPFLI; AS/CA S008; AS/NZS 1125 and AS 1049



2 PAIR 0.64MM EXTERNAL AERIAL CABLE - INTEGRAL BEARER (FIGURE 8)

(For aerial self-supported applications)

Cable description:

Cable consists of 2 pairs 0.64mm diameter plain annealed copper conductors, solid polyethylene insulated, twisted quad and overall polyethylene sheathed incorporating a galvanised steel bearer wire in "figure 8" formation.

Construction details:

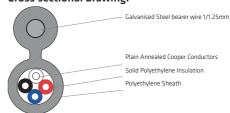
Conductor: Plain annealed copper - 0.64mm

Insulation: Solid polyethylene

Cabling element: Quad

Bearer Wire: Galvanised steel wire – 1/1.25mm Sheath: Polyethylene (UV Stabilised)

Cross sectional drawing:



2 Pair PEILI IB (Drawing not to scale)

Electrical characteristics*:	
Maximum conductor resistance $[\Omega/km]$	56.4
Minimum insulation resistance [MΩ.km]	40000
Mutual capacitance - maximum [nF/km]	48
Max. capacitance unbalance (corrected to 1000m length) - Pair to pair [pF]	170
Max. capacitance unbalance (corrected to 500m length) - Pair to earth [pF]	2000

^{*}Note: All electrical characteristics are given at 20°C

	Mechanical / physical characteristics:								
Cable size Number of pairs/Diameter	Material Number	Nominal Diameter (mm)	Nominal Weight (kg/km)	Minimum Bend Diameter (mm)	Maximum Tensile Strength (N)				
2 / 0.64	49005741	4.4 x 7.9	38	100	1000*				
Operating temporative range [°C]. From 10 to , 70									

Operating temperature range [°C]: From - 10 to + 70

Specifications: Telstra PEILI; AS/CA S008; AS/NZS 1125 and AS 1049

^{*} Tensile applied to the bearer



Internal / UTP Category 3

Internal cable is only ever used indoors within telephone exchanges or customer's premises and as such is not rated for external applications. Conductors are 0.50mm for use in customer's premises. Conductor insulation is of solid polyethylene designed to meet Class C (0.5mm conductor only) requirements as per AS 11801.1 - Generic Cabling for Customer Premises (ISO/IEC 11801). Wires are twisted together to form pairs and then grouped together in various combinations to form the completed cable. Typically, cables are formed into units as the external cables. Overall protection is by means of an off-white coloured flame retarding PVC sheath.

The cable has to comply with specified flame propagation requirements and as such is suitable for installation in vertical building risers and for horizontal runs between equipment racks.





Telstra Material Number	Prysmian Material Description	Number of Pairs	Nominal Weight (kg/ km)	Min. Bending Diameter (mm)	Overall Diameter (mm)	Standard Pack Length (m)	Stock/ MTO	Nominal Drum Dimensions (mm)	Max Hauling Tension (N)
32300165	CABLE, TEL INT 2 PAIR/0.50MM PET/ PV CAT3	2	19	40	3.9	500	Stock	REELEX - 360/360/225 (YELLOW)	75
32300167	CABLE, TEL INT 25 PAIR/0.50MM PET/ PV CAT3	25	150	110	11.5	250	Stock	LW1 - 600/250/480	935
32300168	CABLE, TEL INT 100 PAIR/0.50MM PET/ PV CAT3	100	535	200	21.3	250	Stock	LW2 750/250/600	3750



INTERNAL TELEPHONE / DATA CABLE - UTP CATEGORY 3

(For indoor interconnecting cabling systems)

Cable description:

Plain annealed copper conductors, solid polyethylene insulated, twisted pair, unit construction for 25 and 100 pair cables, taped and PVC overall sheathed. Cable is designed for use within telephone exchanges, commercial switchboards and interconnecting wiring systems. These cables have been upgraded to Category 3, 1000 balanced, suitable for Local Area Network (LAN) network cabling (up to 16 MHz). Data-grade UTP, capable of supporting transmission rates of up to 16Mbps. Cable is suitable for 100 Base T4, IEEE 802.3 and 4 Mbps Token Ring systems.

Construction details:

Conductor: Plain annealed copper - 0.50mm diameter

Insulation: Solid polyethylene

Pair identification:

2 cable: Pair 1 White – Blue, Pair 2 Red – Black,
All other pairs: Pair 1 White – Blue, Pair 2 White – Orange,

Pair 3 White – Green, Pair 4 White – Brown, Pair 5 White – Grey, Pair 6 Red – Blue, Pair 7 Red – Orange, Pair 8 Red – Green, Pair 9 Red – Brown, Pair 10 Red – Grey

Units 5 pairs (pairs 1 to 5); 10 pairs (pairs 1 to 10)

Unit identification (Unit Binder Colours):

Pairs 1 to 10 White – Blue,
Pairs 11 to 20 White – Orange,
Pairs 21 to 30 White – Green,
Pairs 31 to 40 White – Brown,
Pairs 41 to 50 White – Grey,
Pairs 51 to 60 Blue – Blue,
Pairs 61 to 70 Orange – Orange,
Pairs 71 to 80 Green – Green,
Pairs 81 to 90 Brown – Brown,
Pairs 91 to 100 Grey – Grey

Tape: Polyethylene terephthalate (Except 2)

Sheath: PVC 75°C - Manila

Cross sectional drawing:



25 Pair PET PV (Drawing not to scale)

Electrical characteristics*:	
DC resistance [Ω/100m]	9.38 Max.
Resistance unbalance [%]	5.0 Max.
Characteristic impedance [Ω]	100 ± 15 @ 1.0 - 16.0 MHz
Capacitance unbalance [pF/100m] pair to ground @ 0.8 or 1.0 kHz	330 Max.

^{*}Note: All electrical characteristics are given at 20°C

Attenuation and Near End Crosstalk (NEXT)							
Frequency [MHz]	Max. Attenuation [dB/100m]	Min. Pr-Pr NEXT [dB/100m]					
0.256	1.3	N/A					
0.512	1.8	N/A					
0.772	2.2	43.0					
1.0	2.6	41.3					
4.0	5.6	32.3					
8.0	8.5	27.8					
10.0	9.7	26.3					
16.0	13.1	23.2					



	Mechanical / physical characteristics:								
Cable size Number of pairs/Diameter	Material Number	Nominal Diameter (mm)	Nominal Weight (kg/km)	Minimum Bend Diameter (mm)	Maximum Tensile Strength (N)				
2 / 0.50	32300165	3.9	19	40	75				
25 / 0.50	32300167	11.5	150	110	950				
100 / 0.50	32300168	21.3	535	200	3750				
	Operating temperature range [°C]: From - 10 to + 60								

Specifications: Telstra Internal Customer; AS/CA S008; AS 11801.1; ISO/IEC 11801; AS/NZS 1125



Jumper Wire

Jumper wire is the simplest of all telephone cables, used for jumping circuits in pillars and MDF's. Available in 2 wires with either 0.40 and 0.50mm conductors. The wires are twisted together with a short pitch to form a pair.

Conductor insulation is by means of flame retarding PVC that is tough and resistant to cutting and abrasion to prevent damage when jumpered across MDF blocks and sharp edges that are often encountered in some installations.





Telstra Material Number	Prysmian Material Description	Number of Pairs	Nominal Weight (kg/ km)	Min. Bending Diameter (mm)	Overall Diameter (mm)	Standard Pack Length (m)	Stock/ MTO	Nominal Drum Dimensions (mm)	Max Hauling Tension (N)
00300244	WIRE, JUMPER 2/0.4 WHITE - BLUE	1	3	15	1.5	400	6-10 Weeks	12 REELS (204/102/52), CRTN (418/208/370)	24
00300249	WIRE, JUMPER 2/0.5 GREEN -WHITE	1	5	20	1.8	400	Stock	12 REELS (204/102/52), CRTN (418/208/370)	38
00300250	WIRE, JUMPER 2/0.5 RED - WHITE	1	5	20	1.8	400	Stock	12 REELS (204/102/52), CRTN (418/208/370)	38

Note: A standard carton contains 10 reels (4000m) and weighs approximately 20kg. A pallet contains 24 cartons (240 reels or 96,000m) and weighs approximately 525kg



PVC INSULATED INTERNAL JUMPER WIRE

(For interconnection within telephone exchanges and allied internal applications)

Cable description:

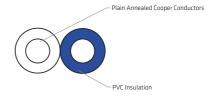
Cable consists of a number of plain annealed copper conductors (0.4mm or 0.5mm diameter), PVC insulated and twisted.

Construction details:

Conductor: Plain annealed copper

Insulation: PVC Cabling element: Twisted pair

Cross sectional drawing:



(Drawing not to scale)

Electrical characteristics*:	Conductor Size [mm]			
EIELITICAI CHARACLETISUCS :	0.40	0.50		
Maximum conductor resistance [Ω/km]	147.6	94.5		
Minimum insulation resistance [MΩ km]	1000	1000		

^{*}Note: All electrical characteristics are given at 20°C

Mechanical / physical characteristics:					
Cable size Number of pairs/Diameter	Material Number	Nominal Diameter (mm)	Nominal Weight (Kg/Km)	Minimum Bend Diameter (mm)	Maximum Tensile Strength (N)
2 Wires/0.40	00300244	1.5	3	15	24
2 Wires/0.50	00300249	1.8	5	20	38
2 Wires/0.50	00300250	1.8	5	20	38

Operating temperature range [°C]: From - 10 to + 60

Specifications: Telstra PVC Insulated Jumper Wire; AS/CA S008; AS/NZS 1125 and AS 1049



Station

Station cable is a balanced twisted pair cable for the interconnection of high speed equipment racks. It comes in pair counts ranging from 1 to 32 suitable for the transmission of baseband signals to 1.024MHz and ATM digital signals to 155 Mb/s. The cable is designed for use within telephone exchanges and equipment rooms and is not suited to external installation. The cable has carefully controlled transmission characteristics by way of impedance, attenuation and crosstalk to assure the required level of performance is achieved. The copper conductors are nominally 0.5mm in diameter and are insulated with a non-halogenated polymer; twin twisted and bunched into 8 pair units as appropriate. The required number of units is then combined together with an overall screen and outer flame retarding LSZH sheath to complete the cable.





Cable Information

Telstra Material Number	Prysmian Material Description	Number of Pairs	Nominal Weight (kg/ km)	Min. Bending Diameter (mm)	Overall Diameter (mm)	Standard Pack Length (m)	Stock/ MTO	Nominal Drum Dimensions (mm)	Max Hauling Tension (N)
35300344	CABLE, STATION SCREENED BALANCED 1 PAIR	1	18	70	4.1	250	6-10 Weeks	REELEX - 360/360/215 (ORANGE)	40
35300614	CABLE, STATION SCREENED BALANCED 10 PAIR	10	94	145	9.4	250	6-10 Weeks	LW1 - 600/250/480	375
35300348	CABLE, STATION SCREENED BALANCED 32 PAIR	32	238	245	16.3	250	6-10 Weeks	LW1 - 600/250/480	1200
35300360	CABLE, STATION UNSCREEN BALANCED 1 PR (JUMPER)	1	5	25	2.2	250	6-10 Weeks	12REELS (204/102/52), CRTN (418/208/370)	40



DIGITAL MULTI-PAIR BALANCED SCREENED STATION CABLE

(For transmission equipment applications)

Cable description:

Cable consists of a number of plain annealed copper conductors (0.50mm diameter) insulated with a dual extrusion comprising an inner layer of cellular polyethylene and an outer solid skin of non-halogenated, self-extinguishing compound, twisted pairs, overall screened, laid up in concentric layers (except 32 pair which consists of 8 pair cross-stranded units) and sheathed with low smoke and fume, halogen free thermoplastic.

Construction details:

Conductor: Plain annealed copper – 0.50mm Insulation: Cellular Polyethylene / Noryl (Solid Skin)

Cabling element: Twisted pair

Wrapping: Foamed Polypropylene Tape
Wrapping: Polyethylene Terephthalate Tape
Drain Wire: Tinned annealed copper 0.5mm

nominal diameter

Screen: Aluminium/polyethylene
terephthalate tape

Sheath: Low Smoke Zero Halogen

Cross sectional drawing:



8 Pair Station (Drawing not to scale)

Electrical characteristics*:	
Maximum conductor resistance $[\Omega/km]$	94.5
Characteristic impedance $[\Omega]$	120
Max. mean mutual capacitance [nF/km]	45
Max. Capacitance unbalance Pair-Earth (Corr. to 250m length)[pF]	500

^{*}Note: All electrical characteristics are given at 20 °C

	Mechanical / physical characteristics:								
Cable size Number of pairs/Diameter	Material Number	Nominal Diameter (mm)	Nominal Weight (kg/km)	Minimum Bend Diameter (mm)	Maximum Tensile Strength (N)				
1 / 0.50	35300344	4.1	18	70	40				
10 / 0.50	35300614	9.4	94	145	375				
32 / 0.50	35300348	16.3	238	245	1200				
1 / 0.50 JW	35300360	2.2	5	25	40				
	Operating temperature range [°C]: From - 10 to + 60								

Specifications: Telstra Specification 1557 Part 4, Issue 3; AS/NZS 1125 and AS 1049

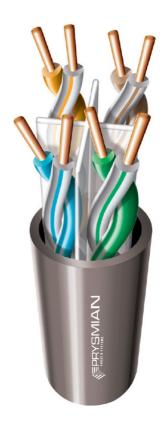
The information contained in this data sheet is subject to normal manufacturing tolerances. Specifications are subject to change within the terms and conditions of relevant agreement and/or contract



LAN

Local Area Network (LAN) cable is supplied as unshielded twisted pairs (UTP) in either Category 5e (Class D) and Category 6 (Class E) as required. The construction and performance of these cables is defined in AS 11801.1 Generic Cabling for Customer Premises (ISO/IEC 11801). Cables have 4 twisted pairs of nominally 0.51mm conductor diameter, insulated with polyethylene and flame retardant PVC sheathed.

The cable is designed for all LAN applications where gigabit ethernet, broadband digital video, etc. at distances of up to 90m is required. Cable is UL listed.





Cable Information

Telstra Material Number	Prysmian Material Description	Number of Pairs	Nominal Weight (kg/ km)	Min. Bending Diameter (mm)	Overall Diameter (mm)	Standard Pack Length (m)	Stock/ MTO	Nominal Drum Dimensions (mm)	Max Hauling Tension (N)
57200256	CABLE, CAT6 UTP 4/0.51 GREY	4	40	50	6.0	305	Stock	REEL IN A BOX - 270/300/310 (RED)	190
4008467	CABLE, CAT6 UTP 4/0.51 BLUE	4	40	50	6.0	305	Stock	REEL IN A BOX - 270/300/310 (RED)	190



4PAIR/0.51MM UNSHIELDED TWISTED PAIR (UTP) CATEGORY 6

(For transmissions equipment applications)

Cable description:

Plain annealed copper conductors, polyethylene insulated, twisted pair, flame retardant PVC overall sheathed. 100Ω balanced cable suitable for Local Area Network (LAN) for high-speed horizontal distribution network cabling (250 MHz). Suitable for 100 Mbps TPDDI, 622 Mbps ATM, 1000 Base T, IEEE 802.3 & IEEE 802.5, Gigabit Ethernet, broadband digital video, etc. Cable is UL listed.

Construction details:

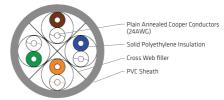
Conductor: Plain annealed copper - 24 AWG Insulation: Solid polyethylene
Core Identification: Pair 1 White-Blue stripes/Blue

Pair 2 White-Orange stripes/Orange Pair 3 White-Green stripes /Green

Pair 4 White-Brown stripes /Brown
Outer sheath: PVC 75°C
Sheath colour: Grey - Standard

Blue - Alternative

Cross sectional drawing:



(Drawing not to scale)

Electrical characteristics*:						
DC resistance [Ω/100m]	9.38 Max.					
Resistance unbalance [%]	5.0 Max.					
Characteristic impedance $[\Omega]$	100 @ 1-250 MHz					
Mutual capacitance [nF/100m]	5.6 Max. @ 1kHZ					
Capacitance unbalance [pF/100m]	330 Max. (pair to earth) @ 1kHZ					
Delay skew [ns/100m]	45 Max. @ 1-250 MHz					
Propagation delay [ns/100m]	536 Max. @ 250 MHz					

^{*}Note: All electrical characteristics are given at 20°C

Dimensions and mass:						
Overall cable diameter (nominal):	6.0 mm					
Mass (nominal):	40 kg/km					
Mechanical / physical characteristics:						
Minimum bending radius [mm]	50					
Maximum pulling tension [N]	190					
Operating temperature range [°C]	- 20 to + 60					

Flame resistance characteristics:

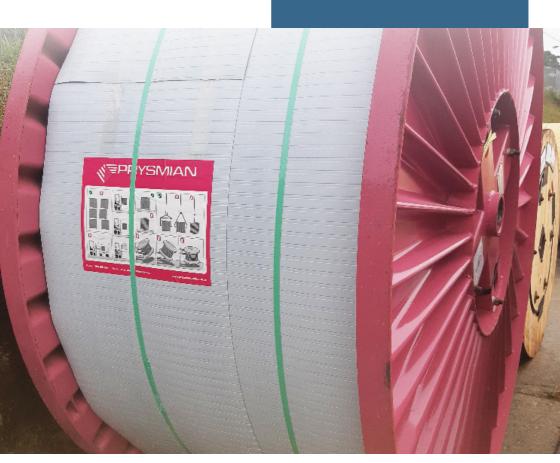
Cable meets AS/NZS IEC 60332.1: "Test for vertical flame propagation for a single insulated wire or cable"

Freq.	Attenuation @ 20°C Max	NEXT Min	Power Sum NEXT Min	ACRF Min	Power Sum ACRF Min	Return Loss Min
[MHz]	[dB/100m]	[dB/100m]	[dB/100m]	[dB/100m]	[dB/100m]	[dB/100m]
1	2.0	74.3	72.3	67.8	64.8	20.0
4	3.8	65.3	63.3	55.8	52.8	23.0
10	6.0	59.3	57.3	47.8	44.8	25.0
16	7.6	56.2	54.2	43.7	40.7	25.0
20	8.5	54.8	52.8	41.8	38.8	25.0
31.25	10.7	51.9	49.9	37.9	34.9	23.6
62.5	15.4	47.4	45.4	31.9	28.9	21.5
100	19.8	44.3	42.3	27.8	24.8	20.1
200	29.0	39.8	37.8	21.8	18.8	18.0
250	32.8	38.3	36.3	19.8	16.8	17.3

Specifications: EIA/TIA 568; ISO/IEC 11801 (Class E); AS/CA 5008;
Material number: 57200256 and 4008467 - Available in 305m length in dispenser cartons (Reelex boxes)

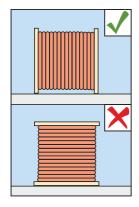
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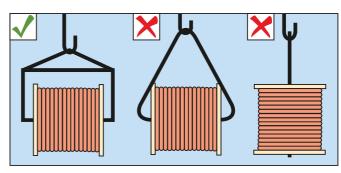
General Information

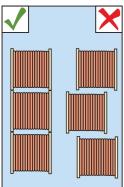




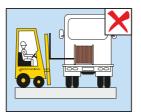
TRANSPORT, HANDLING AND STORAGE GUIDELINES











Do not use the fork lift tynes to push cable drums sideways on a truck tray or the ground as damage to the flanges can result in the drum being unacceptable to customers.







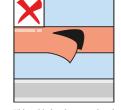












Do not attempt to lift drums of cable without inserting the fork lift tynes fully under both flanges as the tynes can damage the cable, making it unserviceable. Do not attempt to lift drums by the flange or to lift drums into the upright (correct) position by lifting the top flanges as it may break the flange from the drum barrel. The drum will then be undeliverable. Use a length of steel pipe through the centre of the drum to provide leverage and control.

This cable has been rendered unserviceable through fork lift tyne damage and may necessitate the scrapping of the whole drum.

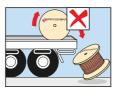
When rewinding cables, drums shall be of suitable construction and in good condition. All drums shall be held firmly in appropriate pay-off stands to prevent vibration and ensure smooth, even rotation to minimise inner end cable grow-out and tangling. Cables shall be wound evenly and uniformly, then secured.



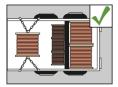
TRANSPORT, HANDLING AND STORAGE GUIDELINES



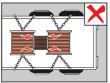
Lower drums gently onto the ground or transport.



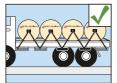
Lower drums gently onto the ground or transport.



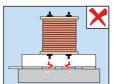
Always protect cable from rubbing or damage. Adjust load or use separators.



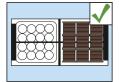
Never let drum flanges contact cable on adjacent drums.



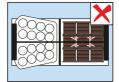
Heavy drums should be chained appropriately for transit, with protection from the chain rubbers for the spindle hole in the centre of the drum. Under no circumstances are drums to be transported on their side.



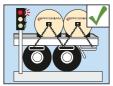
Never lay drums on their side, even on top of pallets, as protruding bolts damage spools and cable.



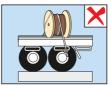
Always protect product, especially spools, against rope damage during tying down of load.



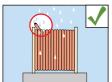
Never use rope directly over shrinkwrapped cable.



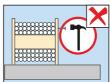
Ensure drums are restrained to restrict movement during sudden stop/starts.



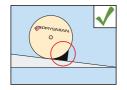
When securing drums for transit, do not place ropes or chains over cable as damage can occur to the outer insulation rendering the cable unserviceable.



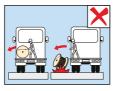
Ensure cable sealing is intact so moisture cannot seep into cable.
Report damage.



Avoid use of additional nails on drums or cable. Flange thicknesses vary and some customers prohibit their use.



When placing drums on an uneven surface be prepared to check drums against rolling and chock if required.



Do not roll cable drums from the back of a delivery truck to the ground as the resulting flange damage will be unacceptable to the customer as the cable will not be able to be rolled off the drum and the drum will need to be returned.

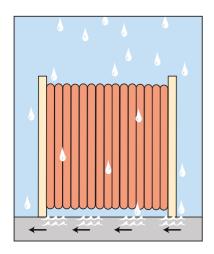


STORAGE RECOMMENDATIONS

When storing cable drums for long periods, please take the following guidelines into consideration:

- Select a site for storage that is level and dry, preferably indoors with a concrete surface, with no risk of falling objects, chemical spills (oil, grease, etc.) open flames and excessive heat.
- If indoors, and concrete storage is not available, select a well-drained surface that will prevent the reel flanges sinking into it.
- The drums must always be stored with their flanges vertical.
- Leave enough space between stored drums for air circulation.
- If drums are stored in a high traffic area (fork lifts frequent transit) suitable barriers should be erected to prevent damage from moving equipment.

- ✓ The bolts should be tightened at regular intervals.
- ✓ During storage, the drums should be rolled to an angle of 90° every three months.
- When only a portion of the cable is used, the open end of the cable remaining on the drum should immediately be re-sealed to prevent the entrance of moisture. Once it has been re-sealed, the cut end should be fixed to the inside edge of the drum flange to prevent the end from extending beyond the flanges during drum movement.
- When it is required to rewind the cable on to another drum, always consider that the diameter of the new drum barrel should be at least the same size of the original drum barrel diameter.









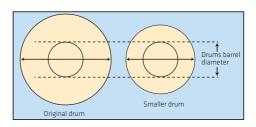














PRYSMIAN CABLE RETURNS

Prysmian Drum Pick Up Details

The following conditions apply for Metal and Wooden drum pick up from the field.

	Metal Drums	Timber Drums
Condition of drum	Good drums only	Good drums only
Minimum drum size	Any size	Minimum 1.8m flange diameter
Location of pick up	ACT: Canberra Metro NT: Darwin Metro NSW: Sydney Metro, Newcastle (2300), Coffs Harbour (2450), Dubbo (2830) QLD: Brisbane Metro, Toowoomba (4350), Rockhampton (4700), Mackay (4740), Townsville (4810), Cairns (4870). SA: Adelaide Metro TAS: Hobart Metro VIC: Melbourne Metro, Ballarat (3350), Bendigo (3550) WA: Perth Metro	ACT: Canberra Metro NT: Darwin Metro NSW: Sydney Metro QLD: Brisbane Metro SA: Adelaide Metro TAS: Hobart Metro VIC: Melbourne Metro WA: Perth Metro
Minimum quantity for pick up location	Prysmian reserves the right to limit pick-ups to full truck load at each location. Prysmian will not unreasonably reject a partial truck load pick up for low volume sites or where its impractical to achieve a full truck load in a reason time frame.	Prysmian reserves the right to limit pick-ups to full truck load at each location.
Disposal of residual cable	Cost for scrapping is \$120/100m	Cost for scrapping is \$120/100m

Following these conditions, Prysmian will pick up cable drums without charge.



Prysmian Drum Tracking

Prysmian has implemented a tag tracking system for metals drums. This allows Prysmian to individually identify drums sent to the field and identify them when they are returned.

Damaged, Delayed and Lost Drums

Prysmian reserves the right to charge for metal drums that are:

- a. Damaged, other than fair wear and tear, that can no longer be used; or
- b. Drums that have not been returned before 12 months from the date of goods issue. If Telstra are aware of project delays which prevent the drum to be made available for pick before the 12 month return date, then Telstra must notify Prysmian of the delay and an expected availability date. The Supplier will work in good faith with Telstra to manage this delay and minimise any charges.
- c. Where Prysmian decides to wait for full truck load, 12 month return date does not apply.

The charge amount is \$2,000/metal drum represents the replace cost of the drums. For clarity, there is no charge for wooden drums that have not been returned.

Drum Return Process

Where pick-up of Prysmian drums is requested, the Drum Return Request Form on the next page must be completed and only contain Prysmian drums that have been used for transport of Telstra cable.

Please mark the form "Prysmian/Telstra drums only".

Email the form to drums.au@prysmiangroup.com with cc: to sales.telecom.au@prysmiangroup.com.

Upon receipt of the completed Drum Return Request Form, details of the drums to be collected and pick-up location will be validated and a transport provider will be assigned by Prysmian to pick up the empty drums. A representative from one of these transport providers will contact the name given on the Drum Return Request Form to arrange pick up.

Should anyone from Telstra or its contractors need to speak with someone from Prysmian, a contact number 1300 300 304 is provided on the form.



DRUM PICK UP REQUEST FORM

(Cc: sales.telecom.au@prysmiangroup.com)

www.prvs.miancable.com.au

For commercial enquiries call 1300 300 304 or visit: For empty drum collection email:

Prysmian Australia Pty Ltd 4 Thew Parade CROMER NSW 2099

WEPRYSMIAN

Prysmian Drums Only

Note State Qty Cable left o Drum (m) drum Total Drum Weight (Kg) Prysmian Drum? (Y/N) Suburb TOTAL DRUMS Customer Street Address Postcode Drum Type REQUESTED BY: 200 290 362 205 225 235 235 250 230 305 360 405 420 395 525 200 750 650 700 140 DRUMS RETURN FORM Flange H x Barrel x Int. wide 1800 X 800 X 800 1700 × 1200 × 900 1800 × 1000 × 900 2400 × 1400 × 840 2400 × 1400 × 1000 2400 x 1400 x 1500 1400 × 700 × 1000 1400 × 800 × 900 2200 x 1000 x 1000 1500 x 1000 x 1000 1800 x 1200 x 1000 2000 x 1000 x 1000 2000 x 1200 x 1000 2100 x 1400 x 1000 2100 x 1000 x 1000 2100 x 1200 x 1040 2250 x 1050 x 1030 2250 x 1400 x 1000 2000 X 900 X 800 1200 x 600 x 1000 1600 x 800 x 900 1600 x 800 x 750 2200 X 900 X 850 1400 x 900 x 900

MT5A

DSA160H

DSA140K

DSA140N DSA150A DSA160B DSA170C DSA200D

METAL METAL METAL

METAL METAL METAL MT11A

DSA225A DSA240J DSA240K DSA240A

DSA240L

DSA220F

DSA210C DSA225B

DSA200G DSA210A DSA210B

METAL METAL METAL METAL METAL METAL METAL

MT10 MT11

MT8

DSA180H

METAL METAL METAL METAL

DSA180E

Prysmian reserve the right to limit pick-up to full truck load Time: Date: SNC signature: Name:

- Non Prysmian drums will incurr additional charge of \$1000 per drum

Non Prysmian drums will not be picked up

SIGNATURE: DATE:

Drum Type

Prysmian Code DWA180B

OF7 OF8 MT

OF9

DWA220B

DSA120J DSA140I

DWA200A

Wooden Wooden



DRUM CONDITION OF DRUMS REQUESTED FOR PICK UP

The purpose of drum returns/pick up's is to collect drums that can be used again to reduce cost and impact to the environment. The drum pick up system is not designed to collect drums that cannot be reused. As such, the condition of each drum is important in determining whether the drum can be picked up.

Prysmian will not pick up drums that are in poor condition and cannot be reused.

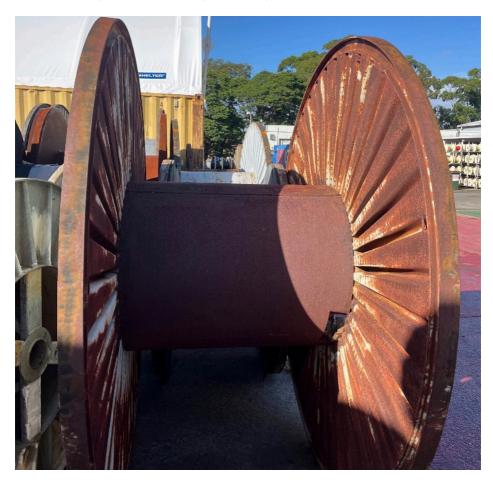
Prysmian will only pick up drums that have been supplied by Prysmian. Prysmian will not pick up cable drums supplied by other manufacturers.

The following guide can be used to determine what is acceptable damage and what is not. This differs for metallic and wooden drums.

Steel Drums Return Check List

√ Check for Rust

Major rust not acceptable as it cannot be repaired. <u>Unacceptable for collection</u>.

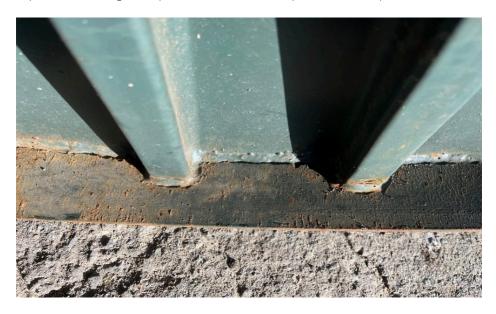




\checkmark Check for Cracks on the Flanges

Minor cracks in the flange can be repaired and are <u>acceptable for drum collection</u>.

Major cracks in the flange or complete detachment cannot be repaired and is <u>unacceptable for collection</u>.



✓ Check the Barrel
If there is gap, this can be repaired. Acceptable for drum collection.





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If there is any protruding metal, this can generally be repaired. Acceptable for drum collection.



✓ Check the Bolts
Rusty, loose or missing bolts can generally be repaired. <u>Acceptable for drum collection.</u>





√ Check if Flange is Bent

If the flange is bent slightly, this can generally be repaired. <u>Acceptable for drum collection.</u>
If the deformation of the flange is more severe, this cannot be repaired. <u>Unacceptable for collection.</u>





Timber Drums Return Check List

✓ Check the Flange Medium to large missing sections of the flange cannot be repaired. <u>Unacceptable for collection.</u>





Small missing panel sections can be repaired. Acceptable for drum collection.





√ Check the Flange

All barrel damages are not cost effective to repair. Unacceptable for collection.





√ Timber Quality

Rotten drums cannot be repaired and cannot carry any weight. Drum can still look visually ok. Rot can be checked by tapping with a hammer on the drum. <u>Unacceptable for collection.</u>



An important part in checking for rot is the centre of the drum (see picture below). If the drum is rotten in this part the drum, it can collapse under the weight of the cable. <u>Unacceptable for collection</u>.



√ Check the Bolts

Rusty, loose or missing bolts can generally be repaired. <u>Acceptable for drum collection.</u>



CABLE PACKAGING

Prysmian Group uses a robust packaging to protect your valuable cable investment during transportation and delivery.

The cable wrap is made entirely of Polyethylene (PE) material and is 100% recyclable.

The polymer material is a strong, light weight, flexible packaging that acts as a shock absorber for the cable. The wrap is UV stabilised and moisture and weather proof so it enables longer term outside storage.

It is an extremely quick, simple and safe material to work with. It takes only a few seconds to remove the wrap and the strapping from the drum and so does not pose the same safety risk as removing timber lagging containing nails and splinters.

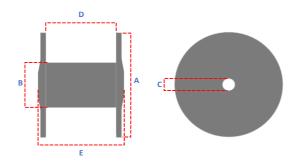




DRUM DIMENSIONS

Drum	Туре		Diameter (mm)		Nominal Internal Flange Width (mm)	Nominal Overall Width (mm)	Nominal Drum Weight (kg)
		Α	В	С	D	Е	
DPA045A	Plastic	450	250	83	300	380	4
DPA058A	Plastic	580	250	83	300	380	4
DPA058C	Plastic	580	250	83	400	480	4
DWA075A	Timber	750	250	110	600	730	22
DWA100A	Timber	1000	350	110	600	730	61
DWA110A	Timber	1100	400	110	600	730	61
DWA110G	Timber	1100	600	110	600	730	61
DWA120K	Timber	1200	800	110	600	730	75
DWA1201	Timber	1200	600	110	800	950	105
DWA125A	Timber	1250	450	110	600	730	70
DWA130A	Timber	1300	800	110	800	950	118
DWA140J	Timber	1400	800	110	800	950	130
DWA160F	Timber	1600	800	110	800	950	157
DWA180B	Timber	1800	800	110	800	980	350
DWA200A	Timber	2000	900	110	800	980	400
DWA220B	Timber	2200	900	110	850	1000	480

Drum	Туре	Nominal Flange Diameter (mm)		Spindle Diameter (mm)	Nominal Internal Flange Width (mm)	Maximum External Width (mm)	Nominal Drum Weight (kg)
		Α	В	С	D	E	
DSA220A	Metal	2230	800	110	930	1160	380
DSA220F	Metal	2200	1000	110	950	1160	480
DSA2209	Metal	2200	800	110	940	1117	370
DSA200D	Metal	2000	1000	110	1000	1140	420
DSA225B	Metal	2250	1400	110	1000	1140	750
DSA240K	Metal	2400	1400	110	1000	1140	700
DSA240A	Metal	2400	1200	110	1000	1140	700





TELSTRA / PRYSMIAN OPTICAL CONTRACT ITEMS

48436136 36F SM HIGH STRENGTH BONDED 12000 48436752 77F SMHIGH STRENGTH BONDED 12000 40012810 77F BBA2-LL HIGH STRENGTH BONDED 12000 40012814 72F ULL-AB HIGH STRENGTH BONDED 12000 40012811 144F BBA2-LL 24F/T HIGH STRENGTH BONDED 12000 40012815 144F ULL-AB 24F/T HIGH STRENGTH BONDED 12000 40012815 144F ULL-AB 24F/T HIGH STRENGTH BONDED 12000 40012815 144F ULL-AB 24F/T HIGH STRENGTH BONDED 12000 40010738 36F SM DUCT SINGLESMRRT 12000 40010739 77F SM DUCT SINGLESMRRT 12000 40010739 77F SM DUCT SMRRTLINK 12000 40010739 77F SM DUCT SMRRTLINK 12000 400107808 77F SBA2-LL DUCT SMRRTLINK 12000 40012812 77F ULL-AB DUCT SMRRTLINK 12000 40012812 77F ULL-AB DUCT SMRRTLINK 12000 40012812 77F ULL-AB DUCT SMRRTLINK 12000 40012813 144F SM DUCT SMRRTLINK 12000 40012813 144F BBA2-LL DUCT SMRRTLINK 12000 40012814 360F BBA2-LL DUCT SMRRTLINK 12000 40012815 144F ULL-AB DUCT SMRRTLINK 12000 40012816 26F SMR DUCT SMRRTLINK 12000 40012817 27F SMR DUCT SMRRTLINK 12000 40012818 144F ULL-AB DUCT SMRRTLINK 12000 40012819 360F SMR DUCT FLEXTUBE 10000 40012744 360F BBA2-LL DUCT SMRRTLINE 10000 40012744 360F BBA2-LL DUCT FLEXTUBE 10000 40012744 360F BBA2-LL DUCT FLEXTUBE 10000 40012744 360F BBA2-LL DUCT FLEXTUBE 10000 40012745 360F BBA2-LL DUCT FLEXTUBE 10000 40012746 360F BBA2-LL DUCT FLEXTUBE 10000 40012749 77F BBA2 DUCT FLEXTUBE 10000 40012740 77F BBA2 DUCT FLEXTUBE 10000 40013323 77F BBA2-LL DUCT FLEXTUBE 10000 40013323 77F BBA2-LL DUCT SMRCORE 12000 40013324 144F BBA2-LL DUCT SMRCORE 12000 40013325 360F BBA2-LL RODENT DIELEC ARMRCORE 12000 40013326 77F ULL-AB RODENT DIELEC ARMRCORE 5000 40013327 144F ULL-AB RODENT DIELEC ARMRCORE 5000 40013329 12F ULL-AB SMRRTCORE INTERNAL TIE 12000 40013329 12F ULL-AB SMRRTCORE INTERNAL TIE 12000 40013330 77F ULL-AB SMRRTCORE INTERNAL TIE 12000 40013380 77F ULL-AB SMRRTCORE INTERNAL TIE 12000 40013380 77F ULL-AB SMRRTCORE INTERNAL TIE 12000	Telstra Material Number	Product Description	Maximum Drum Length (Metres)
40012810 72F BBA2-LL HIGH STRENGTH BONDED 12000	48436136	36F SM HIGH STRENGTH BONDED	12000
40012814 72F ULL-AB HIGH STRENGTH BONDED 12000	48436172	72F SMHIGH STRENGTH BONDED	12000
144F BBA2-LL 24F/T HIGH STRENGTH BONDED 12000 12000 144F ULL-AB 24F/T HIGH STRENGTH BONDED 12000 12000 140009913 12F SM DUCT SINGLESM@RT 12000 12000 140010738 36F SM DUCT SINGLESM@RT 12000 12000 140010739 72F SM DUCT SINGRITLINK 12000 140010739 72F SM DUCT SM@RTLINK 12000 140010739 72F BBA2-LL DUCT SM@RTLINK 12000 140010740 144F SM DUCT SM@RTLINK 12000 140010740 144F SM DUCT SM@RTLINK 12000 140010869 360F SM DUCT FLEXTUBE 10000 140010869 360F SM DUCT FLEXTUBE 10000 140013164 360F SM DUCT FLEXTUBE 10000 140013164 360F SM DUCT FLEXTUBE 10000 172F SM SD DUCT FLEXTUBE 1	40012810	72F BBA2-LL HIGH STRENGTH BONDED	12000
144F ULL-AB 24F/T HIGH STRENCTH BONDED 12000	40012814	72F ULL-AB HIGH STRENGTH BONDED	12000
12F SM DUCT SINCLESM@RT 120000 12000 12000 120000 120000 120000 120000 120000 120000 120000 120000 1	40012811	144F BBA2-LL 24F/T HIGH STRENGTH BONDED	12000
40010738	40012815	144F ULL-AB 24F/T HIGH STRENGTH BONDED	12000
A0010739 72F SM DUCT SM@RTLINK 12000	40009913	12F SM DUCT SINGLESM@RT	12000
40012808 72F BBA2-LL DUCT SM@RTLINK 12000	40010738	36F SM DUCT SM@RTLINK	12000
40012812 72F ULL-AB DUCT SM@RTLINK 12000 40010740 1144F SM DUCT SM@RTLINK 12000 40012809 144F BBA2-LL DUCT SM@RTLINK 12000 40012813 144F ULL-AB DUCT SM@RTLINK 12000 40010869 360F SM DUCT FLEXTUBE 10000 40012744 360F BBA2-LL DUCT FLEXTUBE 10000 40013164 360F ULL-AB DUCT FLEXTUBE 10000 40007900 720F BBX DUCT FLEXTUBE 7000 48453136 36F SM RODENT DIELEC ARM@CORE 12000 48453172 72F SM RODENT DIELEC ARM@CORE 12000 40013323 72F BBA2-LL RODENT DIELEC ARM@CORE 12000 40013326 72F ULL-AB RODENT DIELEC ARM@CORE 7000 48453544 144F SM RODENT DIELEC ARM@CORE 7000 40013324 144F BBA2-LL RODENT DIELEC ARM@CORE 7000 40013327 144F ULL-AB RODENT DIELEC ARM@CORE 7000 40013327 360F SM RODENT DIELEC ARM@CORE 7000 40013328 360F SM RODENT DIELEC ARM@CORE 5000 40013328 360F BBA2-LL RODENT DIELEC ARM@CORE 5000 48462112 12F SM SM@RTCORE INTERNAL TIE 12000 48462172 72F SM SM@RTCORE INTERNAL TIE 12000 48462544 144F SM SM@RTCORE INTERNAL TIE 12000 48462544 144F SM SM@RTCORE INTERNAL TIE 12000	40010739	72F SM DUCT SM@RTLINK	12000
144F SM DUCT SM@RTLINK 12000	40012808	72F BBA2-LL DUCT SM@RTLINK	12000
40012809	40012812	72F ULL-AB DUCT SM@RTLINK	12000
40012813 144F ULL-AB DUCT SM@RTLINK 12000 40010869 360F SM DUCT FLEXTUBE 10000 40012744 360F BBA2-LL DUCT FLEXTUBE 10000 40013164 360F ULL-AB DUCT FLEXTUBE 10000 40007900 720F BBXS DUCT FLEXTUBE 7000 48453136 36F SM RODENT DIELEC ARM@CORE 12000 48453172 72F SM RODENT DIELEC ARM@CORE 12000 40013323 72F BBA2-LL RODENT DIELEC ARM@CORE 12000 40013326 72F ULL-AB RODENT DIELEC ARM@CORE 12000 48453544 144F SM RODENT DIELEC ARM@CORE 7000 40013324 144F BBA2-LL RODENT DIELEC ARM@CORE 7000 40013327 144F ULL-AB RODENT DIELEC ARM@CORE 7000 40013328 360F SM RODENT DIELEC ARM@CORE 5000 40013328 360F BBA2-LL RODENT DIELEC ARM@CORE 5000 48462112 12F SM SM@RTCORE INTERNAL TIE 12000 48462172 72F SM SM@RTCORE INTERNAL TIE 12000 48462172 72F SM SM@RTCORE INTERNAL TIE 12000 48462544 144F SM SM@RTCORE INTERNAL TIE	40010740	144F SM DUCT SM@RTLINK	12000
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48453172 72F SM RODENT DIELEC ARM@CORE 12000 40013323 72F BBA2-LL RODENT DIELEC ARM@CORE 12000 40013326 72F ULL-AB RODENT DIELEC ARM@CORE 12000 48453544 144F SM RODENT DIELEC ARM@CORE 7000 40013324 144F BBA2-LL RODENT DIELEC ARM@CORE 7000 40013327 144F ULL-AB RODENT DIELEC ARM@CORE 7000 40010128 360F SM RODENT DIELEC ARM@CORE 5000 40013325 360F BBA2-LL RODENT DIELEC ARM@CORE 5000 48013328 360F ULL-AB RODENT DIELEC ARM@CORE 5000 48462112 12F SM SM@RTCORE INTERNAL TIE 12000 48462172 72F SM SM@RTCORE INTERNAL TIE 12000 48462172 72F SM SM@RTCORE INTERNAL TIE 12000 48462544 144F SM SM@RTCORE INTERNAL TIE 12000 48462544 144F SM SM@RTCORE INTERNAL TIE 12000 40013381 144F ULL-AB SM@RTCORE INTERNAL TIE 12000	40007900	720F BBXS DUCT FLEXTUBE	7000
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40013324 144F BBA2-LL RODENT DIELEC ARM@CORE 7000 40013327 144F ULL-AB RODENT DIELEC ARM@CORE 7000 40010128 360F SM RODENT DIELEC ARM@CORE 5000 40013325 360F BBA2-LL RODENT DIELEC ARM@CORE 5000 40013328 360F ULL-AB RODENT DIELEC ARM@CORE 5000 48462112 12F SM SM@RTCORE INTERNAL TIE 12000 40013329 12F ULL-AB SM@RTCORE INTERNAL TIE 12000 48462172 72F SM SM@RTCORE INTERNAL TIE 12000 40013380 72F ULL-AB SM@RTCORE INTERNAL TIE 12000 48462544 144F SM SM@RTCORE INTERNAL TIE 12000 40013381 144F ULL-AB SM@RTCORE INTERNAL TIE 12000	40013326	72F ULL-AB RODENT DIELEC ARM@CORE	12000
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48462112 12F SM SM@RTCORE INTERNAL TIE 12000 40013329 12F ULL-AB SM@RTCORE INTERNAL TIE 12000 48462172 72F SM SM@RTCORE INTERNAL TIE 12000 40013380 72F ULL-AB SM@RTCORE INTERNAL TIE 12000 48462544 144F SM SM@RTCORE INTERNAL TIE 12000 40013381 144F ULL-AB SM@RTCORE INTERNAL TIE 12000	40013325	360F BBA2-LL RODENT DIELEC ARM@CORE	5000
40013329 12F ULL-AB SM@RTCORE INTERNAL TIE 12000 48462172 72F SM SM@RTCORE INTERNAL TIE 12000 40013380 72F ULL-AB SM@RTCORE INTERNAL TIE 12000 48462544 144F SM SM@RTCORE INTERNAL TIE 12000 40013381 144F ULL-AB SM@RTCORE INTERNAL TIE 12000	40013328	360F ULL-AB RODENT DIELEC ARM@CORE	5000
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48462544 144F SM SM@RTCORE INTERNAL TIE 12000 40013381 144F ULL-AB SM@RTCORE INTERNAL TIE 12000	48462172	72F SM SM@RTCORE INTERNAL TIE	12000
40013381 144F ULL-AB SM@RTCORE INTERNAL TIE 12000	40013380	72F ULL-AB SM@RTCORE INTERNAL TIE	12000
	48462544	144F SM SM@RTCORE INTERNAL TIE	12000
4040343 43E FM INDOOR (01 TROOP DIEFE	40013381	144F ULL-AB SM@RTCORE INTERNAL TIE	12000
4843ZTIZ IZF SM INDUUR/UUTDUUR RISER 2000	48492112	12F SM INDOOR/OUTDOOR RISER	2000



TELSTRA / PRYSMIAN OPTICAL CONTRACT ITEMS

Telstra Material Number	Product Description	Maximum Drum Length (Metres)
48492124	24F SM INDOOR/OUTDOOR RISER	2000
48392312	12F OM5 INDOOR/OUTDOOR RISER	2000
48392324	24F 0M5 INDOOR/OUTDOOR RISER	2000
48431112	12F SM AERIAL	6000
48431172	72F SM AERIAL	6000
40013562	144F BBA2-LL FLEXTUBE UNDERWATER	Contact Prysmian
40013563	144F ULL-AB FLEXTUBE UNDERWATER	Contact Prysmian
40013564	360F BBA2-LL FLEXTUBE UNDERWATER	Contact Prysmian
40013565	360F ULL-AB FLEXTUBE UNDERWATER	Contact Prysmian
40007901	720F BBXS FLEXTUBE UNDERWATER	Contact Prysmian



TELSTRA / PRYSMIAN METALLIC CONTRACT ITEMS

Telstra Material Number	Product Description	Maximum Drum Length (Metres)
49005023	2PAIR/0.40MM PEIFLI/PE	500
49005741	2PAIR/0.64MM PEILI/PEIB	500
49008123	2PAIR/0.40MM PEIFLI/PEHJC BONDED	500
49008142	2PAIR/0.64MM CPFLI/PEHJC BONDED	500
300244	2CORE/0.40MM PVC WH/BU JUMPER WIRE	400
300249	2CORE/0.50MM PVC GN/WH JUMPER WIRE	400
300250	2CORE/0.50MM PVC RD/WH JUMPER WIRE	400
32300165	2PAIR/0.50MM PET/PV Cat 3	500
32300167	25PAIR/0.50MM PET/PV Cat 3	250
32300168	100PAIR/0.50MM PET/PV Cat 3	250
35300344	1 PAIR/0.50MM SCREENED STATION	250
35300348	32 PR / 0.50 SCR. STATION	250
35300360	1 PR / 0.50 UNSCR. STATION JUMPER WIRE	250
35300614	10 PR / 0.50 SCR. STATION	250
57200256	CAT6 UTP 4 PAIR 305M GREY	305
4008467	CAT6 UTP 4 PAIR 305M BLUE	305
47707025	800PR/0.40MM CPEIUT-MB	1680
47707045	800PAIR/0.64MM CPEIUT-MB	750
47707027	1200PR/0.40MM CPEIUT-MB	1200
46709226	100PR/0.40MM CPFUT/MBHJC AIRTUBE	3000
46709228	200PR/0.40MM CPFUT/MBHJ AIRTUBE	2000
46709230	400PR/0.40MM CPFUT/MBHJ AIRTUBE	2000
46709246	100PR/0.64MM CPFUT/MBHJC AIRTUBE	2000
46709248	200PR/0.64MM CPFUT/MBHJ AIRTUBE	2000
46709250	400PR/0.64MM CPFUT/MBHJ AIRTUBE	1150
46505241	10PAIR/0.64MM PEIUT-IB	500
46505243	30PAIR/0.64MM PEIUT-IB	2000
46505244	50PAIR/0.64MM PEIUT-IB	500
46505246	100PAIR/0.64MM PEIUT/IB	500
46705021	10PAIR/0.40MM CPFUT-PE	1000
46705023	30PAIR/0.40MM CPFUT-PE	1000
46705024	50PAIR/0.40MM CPFUT/PE	1000
46705026	100PAIR/0.40MM CPFUT/PE	1000
46708121	10PAIR/0.40MM CPFUT/PEHJ BONDED	1000
46708123	30PAIR/0.40MM CPFUT/PEHJC BONDED	1000
46708124	50PAIR/0.40MM CPFUT/PEHJC BONDED	1000
46708226	100PAIR/0.40MM CPFUT/MBHJC BONDED	1000
46708241	10PAIR/0.64MM CPFUT/MBHJC BONDED	1000
46708243	30PAIR/0.64MM CPFUT/MBHJC BONDED	1000
46708244	50PAIR/0.64MM CPFUT/MBHJ BONDED	1000
46708246	100PAIR/0.64MM CPFUT/MBHJC BONDED	1000
46708261	10PAIR/0.90MM CPFUT/MBHJC BONDED	1000
46708263	30PAIR/0.90MM CPFUT/MBHJC BONDED	3500
46708264	50/0.90 CPFUT MBHJ	2000
46708266	100/0.90 CPFUT MBHJ	1000



QUALITY CLAIMS

Whilst we, at Prysmian Group, continually strive to deliver what our customers want every time, on time in the correct quantity and according to specification, occasionally we fail to meet customer expectations. On these occasions, we value your feedback to help us identify the problems and implement change to ensure that they are not repeated.

Every complaint we receive is treated seriously and investigated until the cause is identified and corrective actions put in place.

To enable us to do this and to process the claim effectively we need a certain amount of information and, in the case of a product non-conformance, we may require a sample of the affected cable so that we can analyse what went wrong.

There are two ways to lodge a complaint. The simplest and most effective way is to use the aforementioned Cable@Prysmian website. Alternatively, you may call our Customer Service office on 1300 300 304. Please have the following information available to speed up the process.

✓ Your contact details
✓ Drum number

✓ Description of product and Prysmian product code ✓ Your order number

✓ Nature of complaint ✓ Invoice number or delivery advice

✓ Quantity affected ✓ Any other relevant information

✓ Cable Number

The cable number or ticket number is the most important piece of information required to identify the affected cable. It can be found in the sheath printing on the cable as per the example below:



Alternatively, if cable is still packed on drum, the contract number on the drum label must be quoted for traceability.



Upon receipt of a claim, Prysmian Group will conduct an initial investigation and assess risk providing a response within 24 hours. A full investigation will follow and a formal report issued.







NON-Hazardous Substance, NON-Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: Telstra PVC Insulated Jumper Wire

Synonyms: Item Number(s)
Telstra PVC Insulated Jumper Wire 300 series

Recommended use: Cable is for the transmission of voice and data in a range of frequencies.

Supplier: Prysmian Australia Pty Ltd

ACN: 096 594 080 Street Address: 1 Heathcote Road

Liverpool NSW 2170 Australia

Telephone: +612 9600-0777

Emergency telephone number: Quality & HSE Director: 0412 054 611

2. HAZARDS IDENTIFICATION

AUSTRALIA CLASSIFICATION

Based on available information, this material is not classified as hazardous according to criteria of Safe Work Australia.

Poisons Schedule (Aust): Not applicable

NEW ZEALAND CLASSIFICATION

Based on available information, this material is not classified as hazardous according to criteria of ERMA New Zealand.

DANGEROUS GOODS CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

3. COMPOSITION INFORMATION

Product name: Telstra PVC Insulated Jumper Wire Substance Key: SDS-ME01

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4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Not an expected route of exposure. However, if dust exposure occurs during cutting, remove victim from exposure. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin contact: If puncture wounds, cuts or irritation occurs, flush skin with running water. Seek medical assistance if bleeding from puncture wounds or cuts cannot be stemmed. Seek medical assistance if irritation occurs.

Eye contact: If in eyes wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Ingestion: Not an expected route of exposure. However, if material is ingested, rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Specific hazards: PVC component will burn if ignited.

Fire fighting further advice: On burning may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Hazchem Code: Not applicable.

Suitable extinguishing media: If material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder). If material is in service use foam or dry agents (carbon dioxide, dry chemical powder).

6. ACCIDENTAL RELEASE MEASURES

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of dust if present. Collect for reuse or recycling.

Dangerous Goods - Initial Emergency Response Guide No: Not applicable.

7. HANDLING AND STORAGE

Handling: All staff shall be suitably trained in the handling of metallic cables. Avoid eye contact. Avoid skin contact with cut ends of cable.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10

Product name: Telstra PVC Insulated Jumper Wire Substance Key: SDS-ME01

Issued: 24/01/20 Version: 1.2 Page: 2 of 5





8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits:

No value assigned for this specific material by Safe Work Australia or Department of Labour New Zealand.

However for:

TWA STEL CARCINOGEN NOTICES ppm mg/m3 ppm mg/m3 CATEGORY

Copper (dust & mist) (as Cu) - 1 - - - -

As published by the Safe Work Australia or Department of Labour New Zealand.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

Engineering measures: Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

Personal protection equipment: OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES.

Wear overalls, safety glasses and impervious gloves. Available information suggests that gloves made from leather should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using. If risk of inhalation of exists (copper dust & mist), wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: Twisted pairs and quads of copper wire in a range of outside diameters.

Solubility: Insoluble in water

Specific Gravity (20 °C): N Av Relative Vapour Density (air=1): N App Vapour Pressure (20 °C): N App Flash Point (°C): N App Flammability Limits (%): N App Autoignition Temperature (°C): N Av Melting Point/Range (°C): N Av

Product name: Telstra PVC Insulated Jumper Wire Substance Key: SDS-ME01

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N App

Boiling Point/Range (°C):





Decomposition Point/Range (°C): >200
pH: N App
Viscosity: N App
Evaporation Rate (n-Butyl acetate=1): N App
Total VOC (g/Litre): N Av

(Typical values only - consult specification sheet)
N Av = Not available N App = Not applicable

10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible Materials: Oxidising agents.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions: No known hazardous reactions.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this SDS and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: Not expected to be a route of exposure. However, exposure to fine material due to mechanical cutting or abrading may be irritant to mucous membranes and respiratory tract.

Skin contact: Cut ends of copper wire and cable may cause abrasive irritation, cuts or puncture wounds. Contact with skin may result in irritation.

Eye contact: May be an eye irritant. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.

Ingestion: Not expected to be a route of exposure. Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Long Term Effects: No information available for product.

Acute toxicity / Chronic toxicity: No LD50 data available for the product.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Mobility: No information available.

Product name: Telstra PVC Insulated Jumper Wire Substance Key: SDS-ME01

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13. DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

Poisons Schedule (Aust): Not applicable

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Issue	<u>Date</u>	Reason(s) For Issue:
1.0	01/09/15	First Issue. Supersedes MSDS-ME01
1.1	22/10/15	Emergency contact details updated
12	24/01/20	Emergency contact details & item numbers undated. No other technical changes

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safety handle and use the product in the workplace. Since Prysmian Australia Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

Product name: Telstra PVC Insulated Jumper Wire Substance Key: SDS-ME01

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NON-Hazardous Substance, NON-Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: Telstra Internal Copper Cables

Synonyms: Item Number(s)
Telstra Internal Distribution Cables, CAT5E (UTP) & CAT6 (UTP) 323 series, 572 series

Recommended use: Cable is for the transmission of voice and data in a range of frequencies.

Supplier: Prysmian Australia Pty Ltd

ACN: 096 594 080 Street Address: 1 Heathcote Road

Liverpool NSW 2170 Australia

Telephone: +612 9600-0777

Emergency telephone number: Quality & HSE Director: 0412 054 611

2. HAZARDS IDENTIFICATION

AUSTRALIA CLASSIFICATION

Based on available information, this material is not classified as hazardous according to criteria of Safe Work Australia.

Poisons Schedule (Aust): Not applicable

NEW ZEALAND CLASSIFICATION

Based on available information, this material is not classified as hazardous according to criteria of ERMA New Zealand.

DANGEROUS GOODS CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO.	PROPORTION
Copper Cable may contain any or all of the following compounds Polyethylene insulation Polyethylene terephthalate (PET) yarns/tapes Polyvinyl chloride (PVC) sheath Low smoke zero halogen (LSOH) sheath Ingredients determined to be non-hazardous	7440-50-8 - - - - - -	30-60% 40-70% Balance
		100%

Product name: Telstra Internal Distribution Cable Substance Key: SDS-ME02

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4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Not an expected route of exposure. However, if dust exposure occurs during cutting, remove victim from exposure. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin contact: If puncture wounds, cuts or irritation occurs, flush skin with running water. Seek medical assistance if bleeding from puncture wounds or cuts cannot be stemmed. Seek medical assistance if irritation occurs.

Eye contact: If in eyes wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Ingestion: Not an expected route of exposure. However, if material is ingested, rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Specific hazards: PVC, PE, PET and LSOH components will burn if ignited.

Fire fighting further advice: On burning may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Hazchem Code: Not applicable.

Suitable extinguishing media: If material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder). If material is in service use foam or dry agents (carbon dioxide, dry chemical powder).

6. ACCIDENTAL RELEASE MEASURES

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of dust if present. Collect for reuse or recycling.

Dangerous Goods - Initial Emergency Response Guide No: Not applicable.

7. HANDLING AND STORAGE

Handling: All staff shall be suitably trained in the handling of metallic cables. Avoid eye contact. Avoid skin contact with cut ends of cable.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10.

Product name: Telstra Internal Distribution Cable Substance Key: SDS-ME02

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits:

No value assigned for this specific material by Safe Work Australia or Department of Labour New Zealand.

However for:

TWA STEL CARCINOGEN NOTICES ppm mg/m3 ppm mg/m3 CATEGORY

Copper (dust & mist) (as Cu) - 1 - - - - -

As published by the Safe Work Australia or Department of Labour New Zealand.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

Engineering measures: Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

Personal protection equipment: OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES.

Wear overalls, safety glasses and impervious gloves. Available information suggests that gloves made from leather should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using. If risk of inhalation of exists (copper dust & mist), wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: Circular cables in a range of outside diameters.

Solubility: Insoluble in water

Specific Gravity (20 °C):

Relative Vapour Density (air=1):

Vapour Pressure (20 °C):

N App
Flash Point (°C):

N App
Flammability Limits (%):

Autoignition Temperature (°C):

N Av
Melting Point/Range (°C):

N Av

Product name: Telstra Internal Distribution Cable Substance Key: SDS-ME02

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Boiling Point/Range (°C): N App
Decomposition Point/Range (°C): >200
pH: N App
Viscosity: N App
Evaporation Rate (n-Butyl acetate=1): N App
Total VOC (g/Litre): N Av

10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible Materials: Oxidising agents.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions: No known hazardous reactions.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this SDS and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: Not expected to be a route of exposure. However, exposure to fine material due to mechanical cutting or abrading may be irritant to mucous membranes and respiratory tract.

Skin contact: Cut ends of copper wire and cable may cause abrasive irritation, cuts or puncture wounds. Contact with skin may result in irritation.

Eye contact: May be an eye irritant. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.

Ingestion: Not expected to be a route of exposure. Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Long Term Effects: No information available for product.

Acute toxicity / Chronic toxicity: No LD50 data available for the product.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Mobility: No information available.

Product name: Telstra Internal Distribution Cable Substance Key: SDS-ME02

Issued: 24/01/20 Version: 1.2 Page: 4 of 5





13. DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

Poisons Schedule (Aust): Not applicable

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Issue	<u>Date</u>	Reason(s) For Issue:
1.0	01/09/15	First Issue. Supersedes MSDS-ME02.
1.1	22/10/15	Emergency contact details updated
1.2	24/01/20	Emergency contact details & item numbers updated. No other technical changes.

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safety handle and use the product in the workplace. Since Prysmian Australia Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

Product name: Telstra Internal Distribution Cable Substance Key: SDS-ME02

Issued: 24/01/20 Version: 1.2 Page: 5 of 5





NON-Hazardous Substance, NON-Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: Telstra External Copper Cables

Synonyms:

Telstra External Cables including CPFUT, CPEIUT, CPIUT, PEIUT-IB

(aerial), air-tube cables and PEIFLI, CPFLI & PEILI (Lead-in)

Item Number(s) 465 series, 476 series, 477 series, 490 series

Recommended use: Cable is for the transmission of voice and data in a range of frequencies.

Prysmian Australia Pty Ltd Supplier:

ACN: 096 594 080

Street Address: 1 Heathcote Road Liverpool NSW 2170

Australia

Telephone: +612 9600-0777

Quality & HSE Director: 0412 054 611 Emergency telephone number:

2. HAZARDS IDENTIFICATION

AUSTRALIA CLASSIFICATION

Based on available information, this material is not classified as hazardous according to criteria of Safe Work Australia.

Poisons Schedule (Aust): Not applicable

NEW ZEALAND CLASSIFICATION

Based on available information, this material is not classified as hazardous according to criteria of ERMA New Zealand.

DANGEROUS GOODS CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

3. COMPOSITION INFORMATION

CHEMICAL ENTITY CAS NO. **PROPORTION**

7440-50-8 20-80% Copper 20-80%

Cable may contain any or all of the following compounds Polyethylene insulation

Polyvinyl chloride (PVC) insulation Filling compound

Polyethylene terephthalate (PET) yarns/tapes Paper tapes

Product name: Telstra External Copper Distribution Cables Substance Key: SDS-ME03

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 Aluminium moisture barrier tape

 Bonding agent

 Polyethylene sheath

 Polyamide sheath (Nylon)

 Polyvinyl chloride sheath

 Steel wire

Ingredients determined to be non-hazardous - Balance

100%

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Not an expected route of exposure. However, if dust exposure occurs during cutting, remove victim from exposure. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin contact: If puncture wounds, cuts or irritation occurs, flush skin with running water. Seek medical assistance if bleeding from puncture wounds or cuts cannot be stemmed. Seek medical assistance if irritation occurs.

Eye contact: If in eyes wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Ingestion: Not an expected route of exposure. However, if material is ingested, rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Specific hazards: PVC, PE, Filling compound, PET, Tapes, Bonding agents and Nylon components will burn if ignited.

Fire fighting further advice: On burning may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Hazchem Code: Not applicable.

Suitable extinguishing media: If material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder). If material is in service use foam or dry agents (carbon dioxide, dry chemical powder).

6. ACCIDENTAL RELEASE MEASURES

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of dust if present. Collect for reuse or recycling.

Dangerous Goods - Initial Emergency Response Guide No: Not applicable.

Product name: Telstra External Copper Distribution Cables Substance Key: SDS-ME03

Issued: 24/01/20 Version: 1.3 Page: 2 of 5





7. HANDLING AND STORAGE

Handling: All staff shall be suitably trained in the handling of metallic cables. Avoid eye contact. Avoid skin contact with cut ends of cable.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits:

No value assigned for this specific material by Safe Work Australia or Department of Labour New Zealand.

However for:

	TWA		STEL		CARCINOGEN	NOTICES
	ppm	mg/m3	ppm	mg/m3	CATEGORY	
Copper (dust & mist) (as Cu)	-	1	-	-	-	-

As published by the Safe Work Australia or Department of Labour New Zealand.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

Engineering measures: Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

Personal protection equipment: OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES,

Wear overalls, safety glasses and impervious gloves. Available information suggests that gloves made from leather should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using. If risk of inhalation of exists (copper dust & mist), wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

Product name: Telstra External Copper Distribution Cables Substance Key: SDS-ME03

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9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: Circular and figure 8 cables in a range of outside diameters.

Solubility: Insoluble in water

Specific Gravity (20 °C): N Av Relative Vapour Density (air=1): N App Vapour Pressure (20 °C): N App Flash Point (°C): N App Flammability Limits (%): N App Autoignition Temperature (°C): N Av Melting Point/Range (°C): N Av Boiling Point/Range (°C): N App Decomposition Point/Range (°C): >200 :Ha N App Viscosity: N App

Evaporation Rate (n-Butyl acetate=1): N App Total VOC (g/Litre): N Av

(Typical values only - consult specification sheet)

N Av = Not available, N App = Not applicable

10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible Materials: Oxidising agents.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions: No known hazardous reactions.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this SDS and the product label. Symptoms or effects that may arise if product is mishandled & overexposure occurs are:

Acute Effects

Inhalation: Not expected to be a route of exposure. However, exposure to fine material due to mechanical cutting or abrading may be irritant to mucous membranes and respiratory tract.

Skin contact: Cut ends of copper wire and cable may cause abrasive irritation, cuts or puncture wounds. Contact with skin may result in irritation.

Eye contact: May be an eye irritant. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.

Ingestion: Not expected to be a route of exposure. Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Long Term Effects: No information available for product.

Acute toxicity / Chronic toxicity: No LD50 data available for the product.

Product name: Telstra External Copper Distribution Cables Substance Key: SDS-ME03

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12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

Poisons Schedule (Aust): Not applicable

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

<u>Issue</u>	Date	Reason(s) For Issue:
1.0	01/09/15	First Issue. Supersedes MSDS-ME03 and includes semi dry filling compound.
1.1	22/10/15	Emergency contact details updated
1.2	01/05/16	Synonym clause updated (IB cable ref. added) to align with existing serial numbers.
1.3	24/01/20	Emergency contact details & item numbers updated. No other technical changes.

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safety handle and use the product in the workplace. Since Prysmian Australia Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

Product name: Telstra External Copper Distribution Cables Substance Key: SDS-ME03

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NON-Hazardous Substance, NON-Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: Telstra Station Cable

Synonyms:Item Number(s)Telstra Station Cable353 series

Recommended use: Cable is for the transmission of voice and data in a range of frequencies.

Supplier: Prysmian Australia Pty Ltd

ACN: 096 594 080 Street Address: 1 Heathcote Road

> Liverpool NSW 2170 Australia

Telephone: +612 9600-0777

Emergency telephone number: Quality & HSE Director: 0412 054 611

2. HAZARDS IDENTIFICATION

AUSTRALIA CLASSIFICATION

Based on available information, this material is not classified as hazardous according to criteria of Safe Work Australia.

Poisons Schedule (Aust): Not applicable

NEW ZEALAND CLASSIFICATION

Based on available information, this material is not classified as hazardous according to criteria of ERMA New Zealand.

DANGEROUS GOODS CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

3. COMPOSITION INFORMATION

CHEMICAL ENTITY CAS NO. **PROPORTION** Copper 7440-50-8 30-60% Cable may contain any or all of the following compounds 40-70% Polyethylene insulation Polyamide (nylon) insulation Polyethylene terephthalate (PET) yarns/tapes Metallic screen (aluminium & polyethylene combination) Low smoke zero halogen (LSOH) sheath Ingredients determined to be non-hazardous Balance 100%

Product name: Telstra Station Cable Substance Key: SDS-ME10

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4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Not an expected route of exposure. However, if dust exposure occurs during cutting, remove victim from exposure. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin contact: If puncture wounds, cuts or irritation occurs, flush skin with running water. Seek medical assistance if bleeding from puncture wounds or cuts cannot be stemmed. Seek medical assistance if irritation occurs.

Eye contact: If in eyes wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Ingestion: Not an expected route of exposure. However, if material is ingested, rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Specific hazards: PVC, Nylon, PET, PE, Metallic screen and LSOH components will burn if ignited.

Fire fighting further advice: On burning may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Hazchem Code: Not applicable.

Suitable extinguishing media: If material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder). If material is in service use foam or dry agents (carbon dioxide, dry chemical powder).

6. ACCIDENTAL RELEASE MEASURES

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of dust if present. Collect for reuse or recycling.

Dangerous Goods - Initial Emergency Response Guide No: Not applicable.

7. HANDLING AND STORAGE

Handling: All staff shall be suitably trained in the handling of metallic cables. Avoid eye contact. Avoid skin with cut ends of copper wire.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10.

Product name: Telstra Station Cable Substance Key: SDS-ME10

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits:

No value assigned for this specific material by Safe Work Australia or Department of Labour New Zealand.

However for:

	TWA		STEL		CARCINOGEN	NOTICES	
	ppm	mg/m3	ppm	mg/m3	CATEGORY		
Copper (dust & mist) (as Cu) Aluminium	-	1	-	-	-	-	
(metal dust) (elemental)	-	10	-	-	-	-	

As published by the Safe Work Australia or Department of Labour New Zealand.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

Engineering measures: Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

Personal protection equipment: OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES.

Wear overalls, safety glasses and impervious gloves. Available information suggests that gloves made from leather should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using. If risk of inhalation of exists (copper dust & mist), wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: Circular cables in a range of outside diameters.

Solubility: Insoluble in water

Specific Gravity (20 °C): N Av Relative Vapour Density (air=1): N App Vapour Pressure (20 °C): N App Flash Point (°C): N App

Product name: Telstra Station Cable Substance Key: SDS-ME10

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Flammability Limits (%): N App Autoignition Temperature (°C): N Av Melting Point/Range (°C): N Av Boiling Point/Range (°C): N App Decomposition Point/Range (°C): >200 pH: N App Viscosity: N App Evaporation Rate (n-Butyl acetate=1): N App Total VOC (g/Litre): N Av

(Typical values only - consult specification sheet)

N Av = Not available

N App = Not applicable

10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible Materials: Oxidising agents.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions: No known hazardous reactions.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this SDS and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: Not expected to be a route of exposure. However, exposure to fine material due to mechanical cutting or abrading may be irritant to mucous membranes and respiratory tract.

Skin contact: Cut ends of copper wire and cable may cause abrasive irritation, cuts or puncture wounds. Contact with skin may result in irritation.

Eye contact: May be an eye irritant. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.

Ingestion: Not expected to be a route of exposure. Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Long Term Effects: No information available for product.

Acute toxicity / Chronic toxicity: No LD50 data available for the product.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Ecotoxicity: No information available.

Product name: Telstra Station Cable Substance Key: SDS-ME10

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Persistence and degradability: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

Poisons Schedule (Aust): Not applicable

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

<u>issue</u>	<u>Date</u>	Reason(s) For Issue:
1.0	01/09/15	First Issue. Supersedes MSDS-ME10.
1.1	22/10/15	Emergency contact details updated
1.2	24/01/20	Emergency contact details & item numbers updated. No other technical changes.

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Prysmian Australia Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

Product name: Telstra Station Cable Substance Key: SDS-ME10

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NON-Hazardous Substance, NON-Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: Telstra Underwater Copper Cable

Synonyms: Item Number(s)
Underwater cable, river crossing cable Not Allocated

Recommended use: Cable is for the transmission of voice and transfer in a range of frequencies.

Supplier: Prysmian Australia Pty Ltd

ACN: 096 594 080

Street Address: 1 Heathcote Road Liverpool NSW 2170

Australia

Telephone: +612 9600-0777

Emergency telephone number: Quality & HSE Director: 0412 054 611

2. HAZARDS IDENTIFICATION

AUSTRALIA CLASSIFICATION

Based on available information, this material is not classified as hazardous according to criteria of Safe Work Australia.

Poisons Schedule (Aust): Not applicable

NEW ZEALAND CLASSIFICATION

Based on available information, this material is not classified as hazardous according to criteria of ERMA New Zealand.

DANGEROUS GOODS CLASSIFICATION

CAS NO.

PROPORTION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

3. COMPOSITION INFORMATION

CHEMICAL ENTITY

Copper 7440-50-8 20-80%
Cable may contain any or all of the following compounds - 20-80%
Polyethylene insulation - Flooding compound - Polyethylene terephthalate (PET) yarns/tapes -

Paper tapes
Aluminium moisture barrier tape
Water-swellable filling / armour flooding compound

Polyethylene sheath

Product name: Telstra Underwater Copper Cable Substance Key: SDS-ME11

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Steel wire Bitumen 8052-42-4 Bituminised hessian tape

Ingredients determined to be non-hazardous

Balance 100%

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Not an expected route of exposure. However, if dust exposure occurs during cutting, remove victim from exposure. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin contact: If puncture wounds, cuts or irritation occurs, flush skin with running water. Seek medical assistance if bleeding from puncture wounds or cuts cannot be stemmed. Seek medical assistance if irritation occurs.

Eye contact: If in eyes wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Ingestion: Not an expected route of exposure. However, if material is ingested, rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Specific hazards: Flooding compound, PET, Tapes, Water-swellable filling / amour flooding compound, Bitumen and Bituminised hessian tape components will burn if ignited.

Fire fighting further advice: On burning may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Hazchem Code: Not applicable.

Suitable extinguishing media: If material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder). If material is in service use foam or dry agents (carbon dioxide, dry chemical powder).

6. ACCIDENTAL RELEASE MEASURES

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of dust if present. Collect for reuse or recycling.

Dangerous Goods - Initial Emergency Response Guide No: Not applicable.

Product name: Telstra Underwater Copper Cable Substance Key: SDS-ME11

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7. HANDLING AND STORAGE

Handling: All staff shall be suitably trained in the handling of metallic cables. Avoid eye contact. Avoid skin contact with cut ends of cable.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits:

No value assigned for this specific material by Safe Work Australia or Department of Labour New Zealand.

However for:

	TV ppm	VA mg/m3	ST ppm	EL mg/m3	CARCINOGEN CATEGORY	NOTICES
Copper (dust & mist) (as Cu)	-	1	-	-	-	-
Bitumen	-	5	-	-	-	-

As published by the Safe Work Australia or Department of Labour New Zealand.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

Engineering measures: Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

Personal protection equipment: OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES.

Wear overalls, safety glasses and impervious gloves. Available information suggests that gloves made from leather should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using. If risk of inhalation of exists (copper dust & mist or bitumen), wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

Product name: Telstra Underwater Copper Cable Substance Key: SDS-ME11

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9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: Circular cables in a range of outside diameters.

Solubility: Insoluble in water

Specific Gravity (20 °C): N Av Relative Vapour Density (air=1): N App Vapour Pressure (20 °C): N App Flash Point (°C): N App Flammability Limits (%): N App Autoignition Temperature (°C): N Av Melting Point/Range (°C): N Av Boiling Point/Range (°C): N App Decomposition Point/Range (°C): >200 pH: N App Viscosity: N App Evaporation Rate (n-Butyl acetate=1): N App Total VOC (g/Litre): N Av

10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible Materials: Oxidising agents.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions: No known hazardous reactions.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this SDS and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: Not expected to be a route of exposure. However, exposure to fine material due to mechanical cutting or abrading may be irritant to mucous membranes and respiratory tract.

Skin contact: Cut ends of copper wire and cable may cause abrasive irritation, cuts or puncture wounds. Contact with skin may result in irritation.

Eye contact: May be an eye irritant. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.

Ingestion: Not expected to be a route of exposure. Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Long Term Effects: No information available for product.

Acute toxicity / Chronic toxicity: No LD50 data available for the product.

Product name: Telstra Underwater Copper Cable Substance Key: SDS-ME11

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12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

Poisons Schedule (Aust): Not applicable

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Issue	<u>Date</u>	Reason(s) For Issue:
1.0	01/09/15	First Issue. Supersedes MSDS-ME11.
1.1	22/10/15	Emergency contact details updated
1.2	24/01/20	Emergency contact details & item numbers updated. No other technical changes.

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Prysmian Australia Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

Product name: Telstra Underwater Copper Cable Substance Key: SDS-ME11

Issued: 24/01/20 Version: 1.2 Page: 5 of 5





NON-Hazardous Substance, NON-Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: Telstra Underwater Optical Fibre Cable

Synonyms: Serial Number(s)

Underwater Cable/ Rover Crossing Cable:

Flextube 40007901 (720 fibre) / 40013564 and 40013565 (360

fibre) / 40013562 and 40013563 (144 fibre)

SM@RTCORE Loose tube 48450 series

Recommended use: Cable is for the transmission of voice and data in a range of frequencies.

Supplier: Prysmian Australia Pty Ltd

ACN: 096 594 080

Street Address: 1 Heathcote Road

Liverpool NSW 2170

Australia +612 9600-0777

Emergency telephone number: Quality & HSE Director: 0412 054 611

2. HAZARDS IDENTIFICATION

AUSTRALIA CLASSIFICATION

Based on available information, this material is not classified as hazardous according to criteria of Safe Work Australia.

Poisons Schedule (Aust): Not applicable

NEW ZEALAND CLASSIFICATION

Based on available information, this material is not classified as hazardous according to criteria of ERMA New Zealand.

DANGEROUS GOODS CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO.	PROPORTION
Cable may contain any or all of the following compounds Optical fibres	-	100%
Tube filling compound	_	
Polybutylene terephthalate (PBT) tubes	-	
Glass reinforced plastic (GRP) rod	-	
Interstitial flooding compound	-	
Polyethylene terephthalate (PET) yarns/ tapes	-	
Polyethylene (PE) sheath	-	
Water swellable yarns/tapes	-	
Aramid yarns	-	
Coated steel tape	-	
Water-swellable filling / armour flooding compound	-	
Steel wire	0050 40 4	
Bitumen	8052-42-4	
Bituminised hessian tape	-	

Product name: Telstra Underwater Optical Fibre Cable Substance Key: SDS-OF01

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Ingredients determined to be non-hazardous

Balance 100%

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Not an expected route of exposure. However, if dust exposure occurs during cutting, remove victim from exposure. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin contact: If puncture wounds, cuts or irritation occurs, flush skin with running water. Seek medical assistance if bleeding from puncture wounds or cuts cannot be stemmed. Seek medical assistance if irritation occurs.

Eye contact: If in eyes wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Ingestion: Not an expected route of exposure. However, if material is ingested, rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Specific hazards: Optical Fibre, Tube filling compound, PBT, Flooding compound, PET, PE, Aramid yarns, Water-swellable filling / amour flooding compound, Bitumen and Bituminised hessian tape components will burn if ignited.

Fire fighting further advice: On burning may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Hazchem Code: Not applicable.

Suitable extinguishing media: If material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder). If material is in service use foam or dry agents (carbon dioxide, dry chemical powder).

6. ACCIDENTAL RELEASE MEASURES

Wear protective equipment to prevent skin and eve contamination. Avoid inhalation of dust if present. Collect for reuse or recycling.

Dangerous Goods - Initial Emergency Response Guide No: Not applicable.

7. HANDLING AND STORAGE

Handling: All staff shall be suitably trained in the handling of optical cables. Avoid eye contact. Avoid skin contact with cut ends of cable.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10.

Product name: Telstra Underwater Optical Fibre Cable Substance Kev: SDS-OF01

Issued: 13/12/22 Version: 1.4 Page: 3 of 5





8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits:

No value assigned for this specific material by Safe Work Australia or Department of Labour New Zealand.

However for:

TWA STEL CARCINOGEN NOTICES ppm mg/m3 ppm mg/m3 CATEGORY

Bitumen - 5 - - - - -

As published by the Safe Work Australia or Department of Labour New Zealand.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

Engineering measures: Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

Personal protection equipment: OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES.

Wear overalls, safety glasses and impervious gloves. Available information suggests that gloves made from leather should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using. If risk of inhalation of exists (bitumen), wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: Circular cables in a range of outside diameters.

Solubility: Insoluble in water Specific Gravity (20 °C): N Av

Relative Vapour Density (air=1):

Vapour Pressure (20 °C):

Flash Point (°C):

N App
Flammability Limits (%):

N Avo
Melting Point/Range (°C):

N Av
Boiling Point/Range (°C):

N App

Product name: Telstra Underwater Optical Fibre Cable Substance Key: SDS-OF01

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Decomposition Point/Range (°C): >200
pH: N App
Viscosity: N App
Evaporation Rate (n-Butyl acetate=1): N App
Total VOC (g/Litre): N Av

(Typical values only - consult specification sheet)
N Av = Not available N App = Not applicable

10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible Materials: Oxidising agents.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions: No known hazardous reactions.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this SDS and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: Not expected to be a route of exposure. However, exposure to fine material due to mechanical cutting or abrading may be irritant to mucous membranes and respiratory tract.

Skin contact: Cut ends of fibre and cable may cause abrasive irritation, cuts or puncture wounds. Contact with skin may result in irritation.

Eye contact: May be an eye irritant. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.

Ingestion: Not expected to be a route of exposure. Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Long Term Effects: No information available for product.

Acute toxicity / Chronic toxicity: No LD50 data available for the product.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Mobility: No information available.

Product name: Telstra Underwater Optical Fibre Cable Substance Key: SDS-OF01

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13. DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

Poisons Schedule (Aust): Not applicable

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

issue	<u>Date</u>	Reason(s) For issue:
1.0	01/09/15	First Issue. Supersedes MSDS-OF01
1.1	22/10/15	Emergency contact details updated
1.2	04/01/19	Emergency contact details updated. Flextube cables added
1.3	24/01/20	Emergency contact details & item numbers undated. No other technical changes

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

December | For January

This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safety handle and use the product in the workplace. Since Prysmian Australia Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

Product name: Telstra Underwater Optical Fibre Cable Substance Key: SDS-OF01

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NON-Hazardous Substance, NON-Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: Telstra External Optical Fibre Cables

Synonyms: Serial Number(s)

Duct Cables:

SingleSM@RT 40009913

SM@RTLink 40010738-40, 40011878-79, 40012808-09, 40012812-13

Flextube 40007900, 40010869, 40012744, 40013164

Direct Buried/High Strength:

48436 series, 40011871-72, 40012810-11, 40012814-15 EXTR@CORE HSe

Aerial Cable:

SM@RTSPAN 48431 series, 40012488

Rodent Proof:

ARM@CORE 48453 series, 40011873-74, 40013323-24, 40013326-27

Flextube 40010128, 40013325, 40013328

Recommended use: Cable is for the transmission of voice and data in a range of frequencies.

Prysmian Australia Pty Ltd Supplier:

ACN: 096 594 080 Street Address: 1 Heathcote Road

Liverpool NSW 2170

Australia

Telephone: +612 9600-0777

Emergency telephone number: Quality & HSE Director: 0412 054 611

2. HAZARDS IDENTIFICATION

AUSTRALIA CLASSIFICATION

Based on available information, this material is not classified as hazardous according to criteria of Safe Work Australia.

Poisons Schedule (Aust): Not applicable

NEW ZEALAND CLASSIFICATION

Based on available information, this material is not classified as hazardous according to criteria of ERMA New Zealand.

DANGEROUS GOODS CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

3. COMPOSITION INFORMATION

CHEMICAL ENTITY CAS NO. **PROPORTION**

Cable may contain any or all of the following compounds 100%

Optical fibres

Tube filling compound Polybutylene terephthalate (PBT) tubes Glass reinforced plastic (GRP) rods or strips Polyethylene terephthalate (PET) varns/tapes

Product name: Telstra External Optical Fibre Cables Substance Kev: SDS-OF02

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Water-swellable yarns/tapes Polyethylene (PE) sheath Aramid yarns Bonding agent Polyamine sheath (Nylon) Ingredients determined to be non-hazardous Bonding agent Balance

100%

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Not an expected route of exposure. However, if dust exposure occurs during cutting, remove victim from exposure. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin contact: If puncture wounds, cuts or irritation occurs, flush skin with running water. Seek medical assistance if bleeding from puncture wounds or cuts cannot be stemmed. Seek medical assistance if irritation occurs.

Eye contact: If in eyes wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Ingestion: Not an expected route of exposure. However, if material is ingested, rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Specific hazards: Optical Fibre, Tube filling compound, PBT, Flooding compound, PET, Water-swellable filling / amour flooding compound, PE, Aramid yarns, Bonding agent and Nylon will burn if ignited.

Fire fighting further advice: On burning may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Hazchem Code: Not applicable.

Suitable extinguishing media: If material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder). If material is in service use foam or dry agents (carbon dioxide, dry chemical powder).

6. ACCIDENTAL RELEASE MEASURES

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of dust if present. Collect for reuse or recycling.

Dangerous Goods - Initial Emergency Response Guide No: Not applicable.

Product name: Telstra External Optical Fibre Cables Substance Key: SDS-OF02

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7. HANDLING AND STORAGE

Handling: All staff shall be suitably trained in the handling of optical cables. Avoid eye contact. Avoid skin contact with cut ends of cable.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits:

No value assigned for this specific material by Safe Work Australia or Department of Labour New Zealand.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

Engineering measures: Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

Personal protection equipment: OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES.

Wear overalls, safety glasses and impervious gloves. Available information suggests that gloves made from leather should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: Circular cables in a range of outside diameters.

Solubility: Insoluble in water

Specific Gravity (20 °C): N Av Relative Vapour Density (air=1): N App Vapour Pressure (20 °C): N App Flash Point (°C): N App Flammability Limits (%): N App Autoignition Temperature (°C): N Av Melting Point/Range (°C): N Av Boiling Point/Range (°C): N App Decomposition Point/Range (°C): >200 pH: N App N App Viscosity: Evaporation Rate (n-Butyl acetate=1): N App Total VOC (g/Litre): N Av

(Typical values only - consult specification sheet)
N Av = Not available N App = Not applicable

10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Elevated temperatures and sources of ignition.

Product name: Telstra External Optical Fibre Cables Substance Key: SDS-OF02

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Incompatible Materials: Oxidising agents.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions: No known hazardous reactions.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this SDS and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: Not expected to be a route of exposure. However, exposure to fine material due to mechanical cutting or abrading may be irritant to mucous membranes and respiratory tract.

Skin contact: Cut ends of fibre and cable may cause abrasive irritation, cuts or puncture wounds. Contact with skin may result in irritation.

Eye contact: May be an eye irritant. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.

Ingestion: Not expected to be a route of exposure. Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Long Term Effects: No information available for product.

Acute toxicity / Chronic toxicity: No LD50 data available for the product.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Product name: Telstra External Optical Fibre Cables Substance Key: SDS-OF02

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AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

Poisons Schedule (Aust): Not applicable

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

<u>lssue</u>	<u>Date</u>	Reason(s) For Issue:
1.0	01/09/15	First Issue. Supersedes MSDS-OF02
1.1	22/10/15	Emergency contact updated
1.2	04/01/19	Emergency contact updated. SingleSM@RT, MiniSM@RT & Flextube cables added.
1.3	25/06/19	SM@RTCORE 2019 replaces MiniSM@RT. No other change in content.
1.4	24/01/20	Emergency contact & item nos. updated. Sm@rtLink brand added. No other changes.
1.5	09/02/23	Various G657.A1-LL, G657.A2-LL, G654C-ULL-AB cables and 36F Aerial 525m span
		cable added to synonyms list.

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safety handle and use the product in the workplace. Since Prysmian Australia Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

Product name: Telstra External Optical Fibre Cables Substance Key: SDS-OF02

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40012105

48393 series



NON-Hazardous Substance, NON-Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: Telstra Internal Optical Fibre Cables

Synonyms: Serial Number(s)

Internal TIE Cable 48462 series, 40013329, 40013380-81

Sm@rtFlex Internal TIE Cable

Internal Riser/Distribution Cable (Premises Cable) 48492 series, 48392 series

Internal Breakout Cable

Patchcord & Zipcord Cables 4841000, 4842000, 48300 series

Bare Fibre Not available

Recommended use: Cable is for the transmission of voice and data in a range of frequencies.

Supplier: Prysmian Australia Pty Ltd

ACN: 096 594 080 Street Address: 1 Heathcote Road

Liverpool NSW 2170

Australia +612 9600-0777

Emergency telephone number: Quality & HSE Director: 0412 054 611

2. HAZARDS IDENTIFICATION

AUSTRALIA CLASSIFICATION

Based on available information, this material is not classified as hazardous according to criteria of Safe Work Australia.

Poisons Schedule (Aust): Not applicable

NEW ZEALAND CLASSIFICATION

Based on available information, this material is not classified as hazardous according to criteria of ERMA New Zealand.

DANGEROUS GOODS CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

3. COMPOSITION INFORMATION

CHEMICAL ENTITY CAS NO. PROPORTION

Cable may contain any or all of the following compounds - 100%

Optical fibres Polyamide (nylon) tight buffering -

Polyvinyl chloride (PVC) tight buffering Low smoke zero halogen (LSOH) tight buffering -

Tube filling compound

Product name: Telstra Internal Optical Fibre Cables Substance Key: SDS-OF05

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Polybutylene terephthalate (PBT) tubes
Glass reinforced plastic (GRP) rod Polyethylene terephthalate (PET) yarns/tapes Water-swellable yarns/tapes Aramid yarns
Polyvinyl chloride (PVC) sheath
Low smoke zero halogen sheath (LSOH) -

Ingredients determined to be non-hazardous - Balance

100%

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Not an expected route of exposure. However, if dust exposure occurs during cutting, remove victim from exposure. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin contact: If puncture wounds, cuts or irritation occurs, flush skin with running water. Seek medical assistance if bleeding from puncture wounds or cuts cannot be stemmed. Seek medical assistance if irritation occurs.

Eye contact: If in eyes wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Ingestion: Not an expected route of exposure. However, if material is ingested, rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Specific hazards: Optical Fibre, Nylon, PVC, PBT, Water-swellable yarns / tapes, Aramid yarns and LSOH will burn if ignited.

Fire fighting further advice: On burning may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Hazchem Code: Not applicable.

Suitable extinguishing media: If material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder). If material is in service use foam or dry agents (carbon dioxide, dry chemical powder).

6. ACCIDENTAL RELEASE MEASURES

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of dust if present. Collect for reuse or recycling.

Dangerous Goods - Initial Emergency Response Guide No: Not applicable.

Product name: Telstra Internal Optical Fibre Cables Substance Key: SDS-OF05

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7. HANDLING AND STORAGE

Handling: All staff shall be suitably trained in the handling of optical cables. Avoid eye contact. Avoid skin contact with cut ends of cable.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits:

No value assigned for this specific material by Safe Work Australia or Department of Labour New Zealand.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

Engineering measures: Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

Personal protection equipment: OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES.

Wear overalls, safety glasses and impervious gloves. Available information suggests that gloves made from leather should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: Circular or 8 cables in a range of outside diameters.

Solubility: Insoluble in water

Specific Gravity (20 °C): N Av Relative Vapour Density (air=1): N App Vapour Pressure (20 °C): N App Flash Point (°C): N App Flammability Limits (%): N App Autoignition Temperature (°C): N Av Melting Point/Range (°C): N Av N App Boiling Point/Range (°C): Decomposition Point/Range (°C): >200 pH: N App Viscosity: N App Evaporation Rate (n-Butyl acetate=1): N App Total VOC (g/Litre): N Av

(Typical values only - consult specification sheet)
N Av = Not available N App = Not applicable

Product name: Telstra Internal Optical Fibre Cables Substance Key: SDS-OF05

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10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible Materials: Oxidising agents.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions: No known hazardous reactions.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this SDS and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: Not expected to be a route of exposure. However, exposure to fine material due to mechanical cutting or abrading may be irritant to mucous membranes and respiratory tract.

Skin contact: Cut ends of fibre and cable may cause abrasive irritation, cuts or puncture wounds. Contact with skin may result in irritation.

Eye contact: May be an eye irritant. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.

Ingestion: Not expected to be a route of exposure. Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Long Term Effects: No information available for product.

Acute toxicity / Chronic toxicity: No LD50 data available for the product.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority.

Product name: Telstra Internal Optical Fibre Cables Substance Key: SDS-OF05

Issued: 09/02/23 Version: 1.4 Page: 4 of 5





14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

Poisons Schedule (Aust): Not applicable

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

<u>lssue</u>	<u>Date</u>	Reason(s) For Issue:
1.0	01/07/15	First Issue. Supersedes MSDS-OF05
1.1	22/10/15	Emergency contact details updated
1.2	24/01/20	Emergency contact details & item numbers updated. No other technical changes.
1.3	20/06/21	Sm@rtFlex TIE cable added to synonyms list.
1.4	09/02/23	Sm@rtcore TIE ULL-AB cables and OM4+ Riser added to synonyms list.

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Prysmian Australia Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

Product name: Telstra Internal Optical Fibre Cables Substance Key: SDS-OF05

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Prysmian Draka **General Cable**

PRYSMIAN AUSTRALIA PTY LTD

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PRYSMIAN NEW ZEALAND LTD 30 Binsted Road, New Lynn 0600 Auckland, New Zealand Ph: (09) 827 3109 Toll Free: 0800 492 225 Email: sales.nz@prysmiangroup.com www.prysmiancable.co.nz







