

FLEXIBLE CABLES 0.6/1 kV
R-E-110 (SDI) 110°C

Application

Flexible single core R-E-110 insulated and HFS-110-TP sheathed cable for mains, submains and subcircuits unenclosed, enclosed in conduit, buried or in underground ducts for building and industrial plants where not subject to mechanical damage. Suitable where space is at a premium and/or where conditions of overload may occur.

Approvals

Suitable for fixed applications only in accordance with AS/NZS 3000 + AS/NZS 5000.1

Behaviour in flame and fire:

Flame propagation - AS/NZS 1660.5.6

Temperature range

Maximum operating temperature: +110°C

Minimum operating temperature: -25°C

Minimum bending radius

Installed cables: 4D

During installation: 6D

Resistance to

Chemical exposure: Occasional

Mechanical impact: Light

Water exposure: Occasional condensation

Solar radiation and

weather exposure: Occasional

Cable design

Conductor:

Flexible bunched annealed copper conductor to AS/NZS 1125 (Class 5).

Insulation:

R-E-110

Colour: Natural

Sheath:

HFS-110-TP

Colour: Black

Installation conditions

In free air

In conduit

In trench

In ground with protection

In duct

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Physical & electrical characteristics

R-E-110 (SDI) 110°C / For fixed installation

Product code	Conductor			Cable			Min. installed bending radius mm
	Nominal C.S.A. mm ²	Nominal diameter mm	Nominal insulation thickness mm	Overall diameter		Approx. mass kg/100 m	
				Minimum mm	Maximum mm		
351CFF110	35	7.7	1.2	12.5	13.3	40.3	55
501CFF110	50	9.3	1.4	14.5	15.3	55.9	65
701CFF110	70	11.1	1.4	16.3	17.2	75.0	70
951CFF110	95	12.8	1.6	18.5	19.4	97.9	80
1201CFF110	120	14.5	1.6	20.2	21.1	122.0	85
1501CFF110	150	16.3	1.8	22.5	23.6	151.1	95
1851CFF110	185	18.0	2.0	24.8	25.8	183.1	105
2401CFF110	240	20.8	2.2	28.1	29.2	239.0	120
3001CFF110	300	23.4	2.4	31.2	32.4	296.7	130
4001CFF110	400	26.8	2.6	35.1	36.4	386.0	150
5001CFF110	500	30.3	2.8	39.1	40.5	485.2	165
6301CFF110	630	35.1	2.8	44.0	45.5	637.0	185

R-E-110 (SDI) 110°C / Current ratings

Nominal conductor area mm ²	Unenclosed				Enclosed	Thermal insulation		Buried direct	Underground wiring enclosure		Three phase voltage drop (@ 50Hz & 110 °C) mV/A.m	
	Spaced	Spaced from surface	Touching	Exposed to sun	Wiring enclosure in air	Partially surrounded by thermal insulation	Completely surrounded by thermal insulation					
35	214	184	172	143	148	121	88	201	151	176	1.31	1.31
50	270	233	217	179	190	146	-	237	188	212	0.921	0.926
70	340	292	273	224	234	187	-	291	229	259	0.658	0.665
95	410	353	329	269	277	228	-	348	268	315	0.509	0.518
120	487	418	390	317	331	269	-	396	316	357	0.408	0.419
150	562	482	450	365	378	306	-	445	357	400	0.340	0.353
185	644	553	516	417	438	359	-	503	404	461	0.293	0.307
240	775	665	620	499	538	439	-	583	481	533	0.242	0.259
300	895	766	714	572	612	501	-	657	542	617	0.213	0.232
400	1079	918	855	682	757	575	-	746	648	700	0.187	0.208
500	1260	1064	990	786	864	692	-	843	729	815	0.172	0.194
630	1493	1240	1154	913	993	787	-	947	828	920	0.159	0.182

Note: Refer to Cable Selection in Technical Cable Guide for more information and data based on AS/NZS 3008.1.1.

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