

Aluminium Neutral Screen Cables



Wire & Cable Specification

Construction	
Standard	AS/NZS 4961
Voltage	0.6/1 kV
Conductor	Aluminium
Insulation	XLPE
Screen	Copper wire neutral screen
Sheath	PVC

Item Codes

Material No.	Old Code	Cores x Area mm ²	Sheath	Nom Dia mm	Approx Mass kg/m
Single Core					
BDGH20PX001CXRJ	9123	1 x 70	BK	21.5	0.89
BDGH21PX001CXRJ	1369	1 x 95	BK	23.9	1.15
BDGH43PX001CXRJ	6550	1 x 120	BK	26.2	1.41
BDGH25PX001CXRJ	5150	1 x 185	BK	31.4	2.08
Single Core Plus Pilot					
QDQH20PX001CXRJ	5808	1 x 70 + 4 P	BK	29.2 x 21.9	1.06
Three Core (or Three Core Plus Pilot)					
FEGH38PX003CXRJ	6229	3 x 35	BK	28.1	1.00
FEGH39PX003CXRJ	1039	3 x 50	BK	31.0	1.24
FEGG20PX003CXRJ	8351	3 x 70	BK	32.3	1.56
FEGG21PX003CXRJ	8365	3 x 95	BK	35.9	2.01
-	5383	3 x 185	BK	47.0	3.66
-	4580	3 x 240	BK	51.6	4.62
Three Core Plus Pilot					
-	9638	3 x 95 + 10 P	BK	39.0	2.21
QDZG23PX003CXRJ	3164	3 x 120 + 10 P	BK	39.6	2.59
QDZG25PX003CXRJ	4774	3 x 185 + 10 P	BK	48.5	3.79
QDZG27PX003CXRJ	1891	3 x 300 + 10 P	BK	57.7	5.76

Core Colours

No. Cores	Colour
3	RD, WH, BU
4 (inc Pilot)	RD, WH, BU, OG
4	RD, WH, BU, BK





Note: Single Core - Conductors are compact circular stranded.
Three Core - Conductors are shaped stranded.

continued

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Technical Information (Current Rating)

Conductor Size mm ²	Unenclosed				Buried Direct		Underground Ducts		Voltage Drop mV/A.m	
	Spaced from Surface		Touching						Single Phase	Three Phase
	Single Phase	Three Phase	Single Phase	Three Phase						
35	149	127	138	116	171	144	128	112	2.230	1.930
50	182	154	171	143	203	171	155	134	1.650	1.430
70	231	198	215	182	251	209	193	166	1.150	0.993
95	281	242	264	226	300	251	235	198	0.835	0.723
120	330	281	308	264	342	284	273	230	0.666	0.577
185	435	374	407	347	433	364	353	300	0.448	0.388

Note:

The values in this table have been obtained from AS/NZS 3008.1.2:1998 for typical New Zealand installation conditions of:-

Ambient Air Temperature 30°C
 Soil Temperature 15°C
 Soil Thermal Resistivity 1.2 K.m/W
 Depth of Burial 0.5 m

