



<p>APPLICATION</p> <p>External distribution cable, for transmission of digital or analogue signals. Cable may be installed by hauling into underground conduit or pipe, or burying directly into the ground.</p> <p>Suitable for glanding.</p> <p>COLOUR CODE</p> <p>Subunits colour coded as per page 2.</p>	<p>STANDARD</p> <p>To Telecom NZ Specifications.</p> <p>APPROVALS</p> <p>Telecom NZ</p> <p>CONDUCTOR</p> <p>Plain annealed Copper</p> <p>INSULATION</p> <p>Cellular Polyethylene</p> <p>FILLING COMPOUND</p> <p>Petroleum Jelly</p> <p>SHEATH</p> <p>Linear Low Density Polyethylene</p>
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Item Number	Type	Conductor		Approx. Mass kg/km	Standard Packing 500m	Surefit Cable Glands (a)	
		Number of Pairs	Number & Diameter of Wires (No./mm)			GPHM	GWPM
68240016	Ext 154	15	1/0.40	80	✓	16B	1
68340016	Ext 504H	50	1/0.40	250	✓	20B	1B-25
68370016	Ext 014H	100	1/0.40	440	✓	25	2A-32
68417016	Ext 204	200	1/0.40	750	✓	32	3
68440016	Ext 404	400	1/0.40	1410	✓	40	4A
68750016	Ext 076	7	1/0.63	85	✓	16B	1
68760016	Ext 156	15	1/0.63	145	✓	16B	1A
69060016	Ext 256	25	1/0.63	260	✓	25	2
69115016	Ext 506	50	1/0.63	470	✓	25	2A-32
69160016	Ext 016	100	1/0.63	910	✓	32	3A
69225016	Ext 206	200	1/0.63	1685	✓	40	4A

H – High Density Polyethylene (HDPE) sheath.

(a) To be used as a guide only. We recommend that actual rather than theoretical dimensions are used when selecting a gland.

Type	Number of Pairs	Insulation Thickness mm	Nominal Overall Diameter mm	Minimum installed bending radius mm	Maximum pulling tension (a) kN
Ext 154	15	0.20	8.1	85	0.26
Ext 504H	50	0.20	13.5	135	0.88
Ext 014H	100	0.20	18.1	185	1.76
Ext 204	200	0.20	21.9	220	3.52
Ext 404	400	0.20	30.5	305	7.04
Ext 076	7	0.25	8.2	85	0.31
Ext 156	15	0.25	10.3	110	0.65
Ext 256	25	0.25	13.9	140	1.09
Ext 506	50	0.25	18.1	185	2.18
Ext 016	100	0.25	25.1	240	4.36
Ext 206	200	0.25	32.7	335	8.73

(a) Based on a copper strength of 70N/mm².

ELECTRICAL CHARACTERISTICS			
Property	Value		Units
Conductor Diameter	0.40	0.63	mm
DC Conductor Resistance @ 20°C	143	58	Ω/km
Minimum insulation Resistance @ 20°C	6500	6500	MΩ/km
Maximum recommended voltage	110	110	V _{DC}
Capacitance between wires of a pair	56	56	nF/km
Capacitance Unbalance maximum at 1 kHz	120	120	nF/km

COLOUR CODE *					
Pair No.	Wire 1	Wire 2	Pair No.	Wire 1	Wire 2
1	White	Blue	14	Black	Brown
2	White	Orange	15	Black	Grey
3	White	Green	16	Yellow	Blue
4	White	Brown	17	Yellow	Orange
5	White	Grey	18	Yellow	Green
6	Red	Blue	19	Yellow	Brown
7	Red	Orange	20	Yellow	Grey
8	Red	Green	21	Violet	Blue
9	Red	Brown	22	Violet	Orange
10	Red	Grey	23	Violet	Green
11	Black	Blue	24	Violet	Brown
12	Black	Orange	25	Violet	Grey
13	Black	Green			

* Larger pair counts are made up from sub-units of no more than 25 pairs.

NOTE: All cables are subject during manufacture to in-process spark testing at 2kV DC
All cables are tested between each conductor and screens earthed at 2kV DC
These cables are not to be regarded as power cables or for the direct connection of equipment to mains power supplies
Values are nominal unless otherwise specified.

2.1.5.1.1

<p>General Cable New Zealand Ltd HEAD OFFICE 75-89 Main South Rd PO Box 8044 Riccarton Christchurch Ph: (03) 348 5199 Fax: (03) 348 2009 Website: www.generalcable.co.nz</p>	<p>South Island Customer Services 75-89 Main South Rd PO Box 8044 Riccarton Christchurch Ph: (03) 341 3500 Fax: (03) 341 0844 Free Fax (Orders): 0800 242 267</p>	<p>Auckland Service Centre 14-18 Vestey Drive PO Box 22-160 Otahuhu Auckland Ph: (09) 276 1020 Fax: (09) 276 1028</p>	<p>Wellington Service Centre 22 Barnes St PO Box 38-271 Petone Wellington Ph: 0800 222-537 Ph: 0800 CABLES Fax: 0800 242-267</p>
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Diagrams of cables are illustrative only and are not necessarily to scale.

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