

Signal Cables

HDPE Insulation with LDPE Sheath

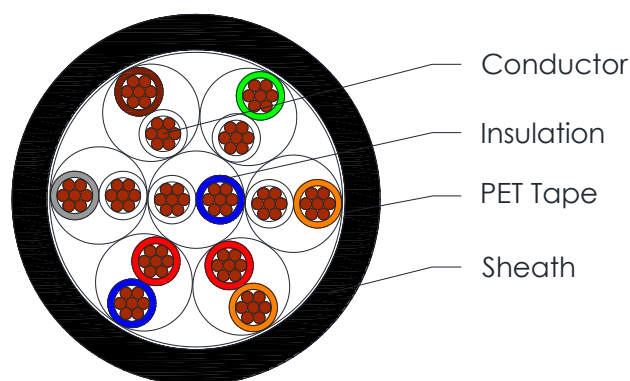


C5144, C5145, C5146, C5147, C5148, C5149, C5150, C5151, C5152, C5153

Applications

Signal Cable used in many applications and installation in various environments.

Cross Section Drawing



Design

Unit	Properties
Conductor	Plain copper wire
Insulation	High Density Polyethylene (HDPE)
Twinning	Pair construction
Filler (optional)	Hydrophobic (water resistant)
Wrapping Tape	Polyester Tape
Outer Sheath Material	Low Density Polyethylene (LDPE) Standard Colour: Black
Standard Put Up Length	305M or 500m

*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

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Electrical Characteristics

Conductor Size(mm)	Max. Conductors resistivity (Ohm/km)	Max. Conductors resistivity error (%)	Max. Mutual Capacitance (nF/km) at 800Hz	Nom. Attenuation at 800Hz	Min. transition suppression at 800Hz 300m (dB)	Dielectric strength core to core at 15°C (DC, 3S)	Min Insulation Resistance at 15°C (500V, DC) (M.Ohm/km)	operation temperature (°C)
0.90	29	2	60	0.75	78	3500	16000	- 40 to + 60

Color Scheme

Pair No.	Color		Pair No.	Color	
1	White	Blue	16	Yellow	Blue
2	White	Orange	17	Yellow	Orange
3	White	Green	18	Yellow	Green
4	White	Brown	19	Yellow	Brown
5	White	Grey	20	Yellow	Grey
6	Red	Blue	21	WHITE-Blue	Blue
7	Red	Orange	22	WHITE-Blue	Orange
8	Red	Green	23	WHITE-Blue	Green
9	Red	Brown	24	WHITE-Blue	Brown
10	Red	Grey	25	WHITE-Blue	Grey
11	Black	Blue	26	RED-Blue	Blue
12	Black	Orange	27	RED-Blue	Orange
13	Black	Green	28	RED-Blue	Green
14	Black	Brown	29	RED-Blue	Brown
15	Black	Grey	30	RED-Blue	Grey

Constructional Information

P/N	Number of Pairs	Insulation Diameter (mm)	Overall Diameter (mm)	Nom. Weight (kg/km)
C5144	3	0.25	7.2	52
C5145	4	0.25	7.8	66
C5146	7	0.25	9.5	109
C5147	10	0.25	12.0	154
C5148	12	0.25	12.5	183
C5149	14	0.25	13.5	220
C5150	19	0.25	14.7	283
C5151	24	0.25	16.5	354
C5152	27	0.25	17.1	400
C5153	30	0.25	18.0	447

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Reference Standards

BS EN 60228	EN 50290-2
RoHS directives	