Fire Resistant Instrumentation Cables
BS EN 50288-7
XLPE insulated OS SWA Armoured Cable

C3595, C3596, C3597, C3598, C3599, C3994, C3995, C3996, C3997

Applications

These cables are designed to connect electrical instrument circuits and provide communication services in and around process plants (e.g. petrochemical industry etc.). Suitable for direct burial applications.

Design

Unit	Properties
Conductor	Class 2 Plain Copper Wire
Insulation	Mica Tape + Cross-linked Polyethylene (XLPE) Color: White and Black numbered
Twinning	Pair construction
Wrapping Tape	PET Tape
Drain Wire	Tinned copper wire
Collective Screen	Aluminum/Polyester tape
Bedding	UV Resistant Halogen Free Flame Retardancy (HFFR) Standard Colour: Black
Armour	Galvanized Steel Wire Armour
Outer Sheath Material	UV Resistant Halogen Free Flame Retardancy (HFFR) 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.

Electrical Characteristics at 20°C

Conductor Size(sqmm)	Max. DCR (Ohm/km)	Max. Mutual Capacitance (pF/m) at 1KHz	Max. L/R ratio (μH/Ω)	Min Insulation Resistance (GOhm/km)	Voltage Rating (V)	Operating Temperature (°C)
1.00	18.4	115	25	1.0	300/500	+90
1.50	12.6	150	40	1.0	300/500	+90
2.50	7.7	150	60	1.0	600/1000	+90

Constructional Information

PN	Number of Pairs/Triads	Conductor Construction(sq mm)	Drain Wire Size (sq mm)	Bedding Diameter（mm）	Overall Diameter (mm)
C3994	2 pairs	1.00	0.50	11.5	16.4
C3595	1 pair	1.50	0.50	8.6	13.1
C3596	2 pairs	1.50	0.50	12.7	17.6
C3597	5 pairs	1.50	0.50	16.6	22.4
C3598	10 pairs	1.50	0.50	23.9	30.1
C3995	20 pairs	1.50	0.50	30.1	36.6
C3599	1Triad	1.50	0.50	9.1	13.7
C3996	1 pair	2.50	0.50	8.8	13.3
C3997	5 pairs	2.50	0.50	19.4	24.2

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Reference Standards

BS50228-7	EN 50290-2
BS EN 60228	IEC60332-3-24
IEC 61034	IEC 60754-1&-2
NFC 32-020	IEC 60331-21
RoHS directives	