

# Instrumentation Cables

## BS EN 50288-7

### XLPE insulated SWA Armoured Cable



**C3588, C3590, C3591, C3592, C3593, C3594**

#### 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	Cross-linked Polyethylene (XLPE) Pair Color: White and Black numbered Triad Color: Red, White and Black numbered
Twinning	Pair or Triad construction
Wrapping Tape	PET Tape
Drain Wire	Tinned copper wire
Collective Screening	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)
0.75	24.8	150	25	1.0	300/500	+90
1.50	12.6	150	40	1.0	300/500	+90

#### Constructional Information

PN	Number of Pairs/Triads	Conductor Construction (sq mm)	Drain Wire Size (sq mm)	Bedding Diameter (mm)	Overall Diameter (mm)
C3588	1Triads	0.75	0.50	6.60	10.8
C3590	1 pair	1.50	0.50	6.30	10.7
C3591	2 pair	1.50	0.50	9.30	13.9
C3592	5 pair	1.50	0.50	12.00	16.7
C3593	10 pair	1.50	0.50	16.90	22.7
C3594	20 pair	1.50	0.50	22.2	28.3

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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	RoHS directives