

**RoHS  
Compliant**

## Application

These cables are designed to connect electrical instrument circuits and provide communication services in and around process plants (e.g. petrochemical industry etc.). Not suitable for direct burial applications. Used in areas where circuit integrity is required in the event of a fire situation. For installations where fire, smoke emissions and toxic fumes create a potential risk to life and equipment.

## Characteristics

Voltage Rating (Uo/U)	: 300/500V
Temperature Rating	: Fixed: -30°C to +90°C
Minimum Bending Radius	: 7.5 × overall diameter
Core Identification	: White and Black numbered
Sheath Colour	: Black

## Cable Standards

BS EN 50288-1, BS EN 50288-7, HD 383, BS EN 50290-2, BS EN/IEC 60332-1, BS EN/IEC 60332-3-24 BS EN 61034-2, BS EN 50267-2-3, BS EN 50267-2-1 IEC 60331-23, BS EN 60228

## Construction

### Conductor

0.5mm<sup>2</sup> - 0.75mm<sup>2</sup>: Class 5 Flexible Copper Conductor

1mm<sup>2</sup> and above: Class 2 Stranded Copper Conductor

### Insulation

XLPE (Cross-Linked Polyethylene)

### Individual and Collective Screen or Collective Screen

PET (Polyester Tape)

AL/PET (Aluminium/Polyester Tape) with tinned drain wire

Multi-Core, Multi-Pair, PiMF and TiMF Type

### Sheath

LSZH (Low Smoke Zero Halogen)

## Dimensions

### Collectively Screened Multi-Pair CAM

Part Number	No. of Pairs	Nominal Cross Sectional Area mm <sup>2</sup>	Nominal Overall Diameter mm	Nominal Weight kg/km
PP002440	1	0.75	6	50
PP002441	2	0.75	9	80
PP002443	1	1.5	7	100
PP002444	2	1.5	11.2	135
PP002446	5	0.75	9.8	-

Newark.com/multicomp-pro  
Farnell.com/multicomp-pro  
Element14.com/multicomp-pro

## Collectively and Individually Screened Pairs in Metal Foil - PiMF

Part Number	No. of Pairs	Nominal Cross Sectional Area mm <sup>2</sup>	Nominal Overall Diameter mm	Nominal Weight kg/km
PP002442	2	0.75	9.8	110
PP002445	2	1.5	11.8	165
PP002447	5	0.75	10.7	-

## Conductors

Nominal Cross Sectional Area mm <sup>2</sup>	Maximum DC Resistance of Conductor at 20°C Ω/km	
	Class 1 & 2	Class 5
0.75	24.5	26
1.5	12.1	13.3

## Electrical Characteristics

Individually and Collectively Screened Cables

Nominal Cross Sectional Area mm <sup>2</sup>	Mutual Capacitance pF/m				Minimum Insulation Resistance at 20°C MΩ/km	Maximum L/R Ratio μH/Ω
	Multi-Core	Multi-Pair	PiMF	TiMF		
0.75	100	65	100	100	5000	25
1.5	100	75	100	100	5000	40

## Part Number Table

Description	Cable Length	Part Number
BS EN 50288-7 XLPE / CAM / LSZH Cable, 300V, 1 Pair, 0.75mm <sup>2</sup> , Black	100m or per metre	PP002440
BS EN 50288-7 XLPE / CAM / LSZH Cable, 300V, 2 Pair, 0.75mm <sup>2</sup> , Black		PP002441
BS EN 50288-7 XLPE / CAM / LSZH Cable, 300V, 2 Pair, 0.75mm <sup>2</sup> , Black		PP002442
BS EN 50288-7 XLPE / CAM / LSZH Cable, 300V, 1 Pair, 1.5mm <sup>2</sup> , Black		PP002443
BS EN 50288-7 XLPE / CAM / LSZH Cable, 300V, 2 Pair, 1.5mm <sup>2</sup> , Black		PP002444
BS EN 50288-7 XLPE / CAM / LSZH Cable, 300V, 2 Pair, 1.5mm <sup>2</sup> , Black		PP002445
BS EN 50288-7 XLPE / CAM / LSZH Cable, 300V, 5 Pair, 0.75mm <sup>2</sup> , Black	50m or per metre	PP002446
BS EN 50288-7 XLPE / CAM / LSZH Cable, 300V, 5 Pair, 0.75mm <sup>2</sup> , Black		PP002447

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