



## APPLICATION

These cables are designed to connect electrical instrument circuits and provide communication services in and around process plants (e.g. petrochemical industry etc.). Pairs are individually shielded for enhanced signal security. Not suitable for direct burial applications. For installations where fire, smoke emissions and toxic fumes create a potential risk to life and equipment.

## CHARACTERISTICS

Voltage Rating: 300V

Operating Temperature

Fixed: -40°C to +80°C

Flexed: 0°C to +50°C

Minimum Bending Radius

6 x overall diameter

## CONSTRUCTION

Conductor

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

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

Insulation

XLPE (Cross-Linked Polyethylene)

Individual and Collective Screen

Al/PET (Aluminium/Polyester Tape)

Drain Wire

Tinned Copper

Sheath

LSZH (Low Smoke Zero Halogen) - UV Resistant

Core Identification

Pairs: White Black, numbered

Triples: White Black Red

Outer Sheath Colour

Blue Black

Note

500V rated cables available on request

## STANDARDS

EN 50288-7, EN 50288-1, EN 60228, HD383

Flame Retardant according to: IEC/EN 60332-1-2, IEC/EN 60332-3-24

Low Smoke Halogen Free according to: IEC/EN 60754-1/2, IEC/EN 61034-2, UV Resistant

## DIMENSIONS

NO. OF PAIRS/TRIPLE	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL OVERALL DIAMETER mm
2P	0.5	7.3
2P	0.75	8.3

2P	1	8.1
2P	1.5	10.5
1T	0.5	7.8
1T	0.75	8.8
1T	1	8.6
1T	1.5	11.2
5P	0.5	9.4
5P	0.75	10.7
5P	1	10.4
5P	1.5	13.7
10P	0.5	13.1
10P	0.75	15
10P	1	14.7
10P	1.5	19.5
15P	0.5	15.1
15P	0.75	17.4
15P	1	17
15P	1.5	22.6
20P	0.5	17.1
20P	0.75	19.7
20P	1	19.1
20P	1.5	25.6
30P	0.5	20.1
30P	0.75	23.2
30P	1	22.6
30P	1.5	30.3

### CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km	
	Class 2	Class 5
0.5	36.36	39.39
0.75	24.8	26.8
1	18.3	19.7
1.5	12.42	13.43
2.5	7.56	8.05

### ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	MUTUAL CAPACITANCE pF/m	MINIMUM RESISTANCE Gohms/km	INSULATION AT 20°C	MAXIMUM L/R RATIO μH/ohms
0.5	115	>10		25
0.75	115	>10		25
1	115	>10		25
1.5	120	>10		40
2.5	120	>10		65

