



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 to prevent cross-talk within cable. 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

12 x overall diameter

CONSTRUCTION

Conductor

0.5mm² - 0.75mm²: Class 5 flexible Copper

1mm² and above: Class 2 stranded Copper

Insulation

XLPE (Cross-Linked Polyethylene)

Individual and Collective Screen

Al/PET (Aluminium/Polyester Tape)

Drain Wire

Tinned Copper

Inner Sheath

LSZH (Low Smoke Zero Halogen)

Armour

SWA (Galvanised steel wires)

Outer 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

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 ²	NOMINAL OVERALL DIAMETER mm
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2P	0.5	11.9
2P	0.75	12.9
2P	1	12.7
2P	1.5	15.2
1T	0.5	12.3
1T	0.75	13.4
1T	1	13.2
1T	1.5	15.9
5P	0.5	14
5P	0.75	15.4
5P	1	15.1
5P	1.5	18.5
10P	0.5	18
10P	0.75	20.6
10P	1	22
10P	1.5	26.1
15P	0.5	20.7
15P	0.75	23.1
15P	1	22.6
15P	1.5	29.5
20P	0.5	22.9
20P	0.75	26.3
20P	1	25.8
20P	1.5	33.5
30P	0.5	26.8
30P	0.75	30.1
30P	1	29.4
30P	1.5	38.4

CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm ²	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 ²	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
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