



## APPLICATION

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.

## 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:

0.5mm<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:

PE (Polyethylene)

Collective Screen:

Al/PET (Aluminium/Polyester Tape)

Drain Wire:

Tinned Copper

Inner Sheath:

PVC (Polyvinyl Chloride)

Armour:

SWA (Galvanised steel wires)

Outer Sheath:

PVC (Polyvinyl Chloride) - UV Resistant

Core Identification:

Pairs: White Black, numbered

Triples: White Black Red

Outer Sheath Colour: Blue Black

Note: 500V rated cables available on request

XLPE (Cross-Linked Polyethylene) insulated cables available on request

## STANDARDS

EN 50288-7, EN 50288-1, EN 60228, HD 383

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

## DIMENSIONS

NO. OF PAIRS/TRIPLE	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL OVERALL DIAMETER mm
1P	0.5	9
1P	0.75	9.5

1P	1	9.4
1P	1.5	10.8
1T	0.5	9.2
1T	0.75	9.8
1T	1	9.7
1T	1.5	11.3
2P(Q)	0.5	11.2
2P(Q)	0.75	12.2
2P(Q)	1	12
2P(Q)	1.5	14.4
5P	0.5	13.1
5P	0.75	14.4
5P	1	14.2
5P	1.5	17.4
10P	0.5	16.7
10P	0.75	18.6
10P	1	18.2
10P	1.5	23.7
15P	0.5	18.6
15P	0.75	21.5
15P	1	21
15P	1.5	27.5
20P	0.5	21.1
20P	0.75	23.7
20P	1	23.1
20P	1.5	30.4

**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