



## 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. 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)

Individual and 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

## 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