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.

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:

0.5mm² - 0.75mm²: Class 5 flexible copper conductor

1mm² and above: Class 2 stranded copper conductor

Insulation:

XLPE (Cross-Linked Polyethylene)

Collective Screen:

Al/PET (Aluminium/Polyester Tape)

Drain Wire:

Tinned copper

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

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 mm2	NOMINAL OVERALL DIAMETER mm
1P	0.5	4.6
1P	0.75	4.6
1P	1	5
1P	1.5	6.4
1T	0.5	4.8
1T	0.75	5.4

1T	1	5.3
1T	1.5	6.7
2P(Q)	0.5	6.7
2P(Q)	0.75	7.6
2P(Q)	1	7.5
2P(Q)	1.5	9.7
5P	0.5	8.6
5P	0.75	9.8
5P	1	9.5
5P	1.5	12.6
10P	0.5	11.9
10P	0.75	13.7
10P	1	13.4
10P	1.5	17.9
15P	0.5	13.8
15P	0.75	15.9
15P	1	15.5
15P	1.5	20.8
20P	0.5	15.5
20P	0.75	17.9
20P	1	17.4
20P	1.5	23.5

CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm2	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 mm2	MUTUAL CAPACITANCE pF/m	MINIMUM INSULATION RESISTANCE AT 20°C Gohms/km	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