



## APPLICATION

For interconnections between instruments, sensors and monitors. Overall screened with specially selected lay schemes in order to counter static and cross talk noises. A “clean” and accurate signal can therefore be expected to be transferred. APL Armouring is provided for increased mechanical protection.

## CHARACTERISTICS

Voltage Rating

300/500V

Maximum Operating Temperature

+105oC

Minimum Bending Radius

9x Overall Diameter

## CONSTRUCTION

Conductor

Stranded annealed bunched copper

Insulation

XLPE (Cross-Linked Polyethylene)

Overall Screen

Al/PET (Aluminium/Polyester Tape)

Drain Wire

Tinned copper

Bedding

PVC (Polyvinyl Chloride)

Armouring

APL (Aluminium Polyethylene Laminated) with bunched tinned

copper drain wire

Sheath

PE (Polyethylene)

Core Identification

Pairs: White Black, numbered

Triples: White Black Red, numbered

Outer Sheath Colour

Black

## DIMENSIONS

NO. OF PAIRS/TRIPLE	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
1P	0.5	9.4	90
1P	1	10.2	111

1P	1.5	11	128
2P	0.5	12.7	153
2P	1	14.6	205
2P	1.5	16.2	248
4P	0.5	14.4	203
4P	1	16.2	265
4P	1.5	18.4	354
8P	0.5	17.1	287
8P	1	20.3	428
8P	1.5	22.8	535
12P	0.5	20	384
12P	1	22.9	557
12P	1.5	26.3	730
16P	0.5	21.7	471
16P	1	25.3	706
16P	1.5	29.4	943
24P	0.5	24.5	629
24P	1	28.6	949
24P	1.5	33	1256
1T	0.5	9.7	100
1T	1	10.5	126
1T	1.5	11.4	148
4T	0.5	15.6	244
4T	1	18.4	357
4T	1.5	20.6	442
8T	0.5	19.8	392
8T	1	22.5	554
8T	1.5	26	726
12T	0.5	23	512
12T	1	26.7	773
12T	1.5	31.4	1036
16T	0.5	25.4	646
16T	1	30	990
24T	0.5	31.1	919

### ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km		NOMINAL MUTUAL CAPACITANCE nF/km	NOMINAL GROUND CAPACITANCE nF/km	NOMINAL INDUCTANCE mH/km
	Single Pair/Triad & Multicore	Multi-Pair Triad			
0.5	39.0	39.6	100	200	0.707
1	19.5	19.8	120	240	0.629
1.5	13.3	13.5	120	240	0.645

**CAPACITANCE**

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CAPACITANCE pF/m	
	Nominal	Maximum
<b>Core / Core Screened</b>		
0.5	84	90
1.0	104	112
1.5	101	121
<b>Core / Screen</b>		
0.5	158	169
1.0	196	210
1.5	190	228
<b>Core / Core No Screen</b>		
0.5	53	56
1.0	63	66
1.5	61	70
<b>Core / Screen OS only</b>		
0.5	100	106
1.0	119	124
1.5	115	131