

INSTRUMENTATION

OVERALL SCREENED / SWA ARMoured

Construction

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. Steel Wire Armouring is provided for increased mechanical protection.

Applications

For interconnections between instruments, sensors and monitors.

Packaging

Available in 500 and 1000 metre drums.
Cut lengths available on request.

Specification

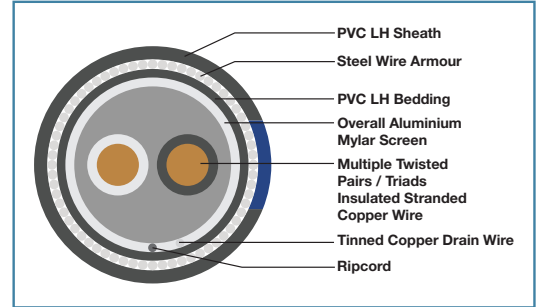
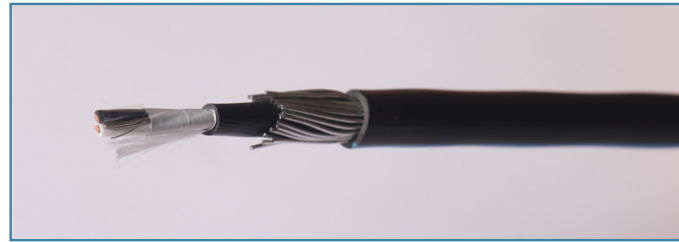
Conductors	Plain annealed class 4 bunched copper
Insulation	Crosslink polyethylene - Temperature rating 105°C
Identification	White Cores, Black numbered Pairs - Black and White numbered cores Triads - Black, Red and White numbered cores
Overall Screening	Aluminium/Polyester tape with a 0.5mm ² tinned copper drainwire.
Bedding Sheath	Flame retardant PVC - Temperature rating 90°C
Armouring	Galvanized Steel Wire
Outer Sheath	Low Halogen. Black/Blue Stripe

Electrical Parameters

Rated insulation voltage	300/500V		
	0.5mm ²	1.0mm ²	1.5mm ²
Max. conductor resistance @ 20°C Ω/km:	39.0	19.5	13.3
Nominal mutual capacitance nF/km:	100	120	120
Nominal ground capacitance nF/km:	200	240	240
Nominal inductance mH/km:	0.68	0.64	0.61

Electrical Characteristics

Size mm ²	Capacitance	Capacitance		Maximum Resistance Ω/km		Nominal Inductance mH/km
		Nominal pF/m	Max pF/m	Single Pair/Triad & Multicore	Multi-Pair Triad	
0.5	Core / Core Screened	84	90	39.0	39.6	0.707
0.5	Core / Screen	158	169	39.0	39.6	0.707
0.5	Core / Core No Screen	53	56	39.0	39.6	0.707
0.5	Core / Screen OS only	100	106	39.0	39.6	0.707
1.0	Core / Core Screened	104	112	19.5	19.8	0.629
1.0	Core / Screen	196	210	19.5	19.8	0.629
1.0	Core / Core No Screen	63	66	19.5	19.8	0.629
1.0	Core / Screen OS only	119	124	19.5	19.8	0.629
1.5	Core / Core Screened	101	121	13.3	13.5	0.645
1.5	Core / Screen	190	228	13.3	13.5	0.645
1.5	Core / Core No Screen	61	70	13.3	13.5	0.645
1.5	Core / Screen OS only	115	131	13.3	13.5	0.645



INSTRUMENTATION

OVERALL SCREENED / SWA ARMoured

Physical Parameters (Standard Sizes)

Product Code	Size mm ²	No. of Pairs/Triads	Nominal OD mm	Min. Bending Radius mm	Gland Size	Nett Mass kg/km	Std Drum Length m	Gross Drum Mass kg
PAIRS								
MPS005001LH	0.5	1	10.5	106	0	249	1000	324
MPS005002LH	0.5	2	13.8	139	0	394	1000	481
MPS005004LH	0.5	4	15.5	155	0	486	1000	573
MPS005008LH	0.5	8	18.6	187	1	651	1000	797
MPS005012LH	0.5	12	21.1	212	2	810	500	567
MPS005016LH	0.5	16	22.8	228	2	930	500	627
MPS005024LH	0.5	24	26.3	263	2	1323	500	906
MPS010001LH	1.0	1	11.3	114	0	290	1000	365
MPS010002LH	1.0	2	15.7	158	0	489	1000	576
MPS010004LH	1.0	4	17.3	174	1	589	1000	751
MPS010008LH	1.0	8	21.4	215	2	857	1000	1003
MPS010012LH	1.0	12	24.7	247	2	1199	500	762
MPS010016LH	1.0	16	27.1	271	3	1418	500	953
MPS010024LH	1.0	24	31.3	313	3	1986	300	758
MPS015001LH	1.5	1	12.1	122	0	329	1000	404
MPS015002LH	1.5	2	17.3	173	1	572	1000	734
MPS015004LH	1.5	4	20.0	200	2	738	1000	884
MPS015008LH	1.5	8	24.6	247	2	1177	500	751
MPS015012LH	1.5	12	28.5	285	3	1510	500	999
MPS015016LH	1.5	16	32.1	321	3	2009	300	765
MPS015024LH	1.5	24	35.6	357	4	2448	300	978
TRIADS								
MTS005001LH	0.5	1	10.8	109	0	269	1000	344
MTS005004LH	0.5	4	16.7	168	1	557	1000	719
MTS005008LH	0.5	8	21.0	210	2	808	1000	954
MTS005012LH	0.5	12	24.8	248	2	1150	500	737
MTS005016LH	0.5	16	27.2	272	3	1371	500	930
MTS005024LH	0.5	24	33.7	337	4	2041	300	856
MTS010001LH	1.0	1	11.7	117	0	316	1000	391
MTS010004LH	1.0	4	19.6	196	2	733	1000	820
MTS010008LH	1.0	8	24.3	245	2	1179	500	752
MTS010012LH	1.0	12	28.9	291	3	1565	500	1027
MTS010016LH	1.0	16	32.6	326	3	2086	300	788
MTS015001LH	1.5	1	12.6	126	0	358	1000	433
MTS015004LH	1.5	4	21.7	218	2	868	1000	1014
MTS015008LH	1.5	8	28.2	283	3	1505	500	997
MTS015012LH	1.5	12	34.0	340	4	2166	300	894

* Multiple triads available on request.