

INSTRUMENTATION

INDIVIDUAL & OVERALL SCREENED / SWA ARMoured

Construction

Individual and 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

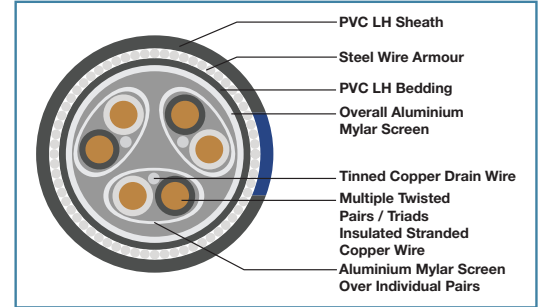
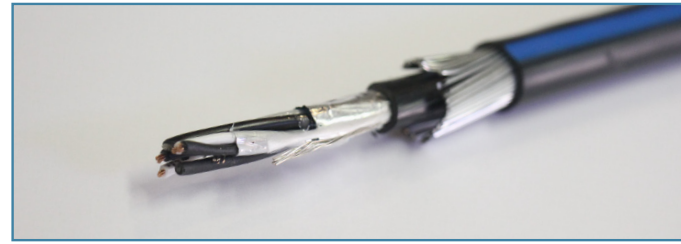
For interconnections between instruments, sensors and monitors.

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
Average Lay Length	63mm
Individual Screening	Aluminium/Polyester tape with a 0.5mm ² tinned copper drainwire. All individual screens are sealed
Overall Screening	Aluminium/Polyester tape with a 0.5mm ² bunched tinned copper drainwire
Bedding Sheath	Flame retardant PVC - Temperature rating 90°C
Armouring	Galvanised 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

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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								
IPS005002LH	0.5	2	14.6	146	0	439	1000	526
IPS005004LH	0.5	4	15.9	159	0	527	1000	614
IPS005008LH	0.5	8	19.6	197	2	761	1000	907
IPS005012LH	0.5	12	22.2	222	2	902	500	613
IPS005016LH	0.5	16	25.4	255	2	1267	500	878
IPS005024LH	0.5	24	29.3	293	3	1597	500	1043
IPS010002LH	1.0	2	16.0	161	0	517	1000	679
IPS010004LH	1.0	4	18.1	181	1	651	1000	797
IPS010008LH	1.0	8	21.4	215	2	934	1000	1080
IPS010012LH	1.0	12	26.2	262	2	1376	500	932
IPS010016LH	1.0	16	29.3	293	3	1644	500	1066
IPS010024LH	1.0	24	34.6	347	4	2356	300	951
IPS015002LH	1.5	2	18.0	180	1	620	1000	782
IPS015004LH	1.5	4	20.3	204	2	784	1000	930
IPS015008LH	1.5	8	25.7	257	2	1305	500	897
IPS015012LH	1.5	12	30.5	305	3	1863	500	1176
IPS015016LH	1.5	16	33.3	334	4	2228	300	912
IPS015024LH	1.5	24	39.8	339	4	2928	300	1170
TRIADS								
ITS005004LH	0.5	4	17.1	172	1	594	1000	669
ITS005008LH	0.5	8	21.5	215	2	870	1000	1016
ITS005012LH	0.5	12	25.8	259	2	1292	500	890
ITS005016LH	0.5	16	28.4	284	3	1526	500	1025
ITS005024LH	0.5	24	34.7	347	4	2231	300	914
ITS010004LH	1.0	4	20.0	200	2	777	1000	923
ITS010008LH	1.0	8	25.2	254	2	1301	500	894
ITS010012LH	1.0	12	30.5	306	3	1892	500	1190
ITS010016LH	1.0	16	33.5	336	4	2250	300	919
ITS015004LH	1.5	4	22.1	221	2	911	1000	1155
ITS015008LH	1.5	8	28.7	288	3	1586	500	1037
ITS015012LH	1.5	12	34.6	347	4	2288	300	930

* Multiple triads available on request.