

INSTRUMENTATION

INDIVIDUAL & OVERALL SCREENED / UNARMoured DEKARON

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.

Applications

For interconnections between instruments, sensors and monitors.

Packaging

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

Specification

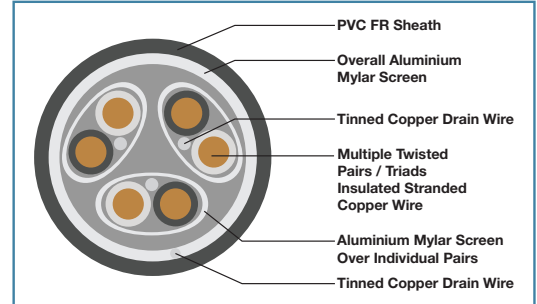
Conductors	Plain annealed class 4 bunched copper
Insulation	Crosslink polyethylene - Temperature rating 105°C
Identification	White Cores, Black numbered Pairs - Black and White numbered cores Triads - Black, Red and White numbered cores
Average Lay Length	63mm
Individual Screening	Aluminium/Polyester 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
Outer Sheath	Flame retardant PVC - Temperature rating 90°C

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								
IP005002	0.5	2	9.7	87	0	109	1000	174
IP005004	0.5	4	11.0	99	0	159	1000	234
IP005008	0.5	8	14.3	130	1	273	1000	348
IP005012	0.5	12	16.9	152	2	347	500	249
IP005016	0.5	16	19.4	175	2	458	500	316
IP005024	0.5	24	22.9	207	3	627	500	478
IP010002	1.0	2	11.1	101	1	148	1000	223
IP010004	1.0	4	12.8	115	1	213	1000	288
IP010008	1.0	8	16.7	151	2	377	1000	539
IP010012	1.0	12	20.2	182	2	544	500	359
IP010016	1.0	16	22.9	206	3	691	500	508
IP010024	1.0	24	27.4	247	4	998	500	743
IP015002	1.5	2	12.7	115	1	183	1000	258
IP015004	1.5	4	15.0	136	2	297	1000	384
IP015008	1.5	8	19.7	178	2	494	500	334
IP015012	1.5	12	23.3	210	3	685	500	505
IP015016	1.5	16	26.8	242	4	903	300	433
IP015024	1.5	24	32.2	290	4	1305	300	554
TRIADS								
IT005004	0.5	4	12.2	110	1	189	1000	264
IT005008	0.5	8	16.2	146	2	330	1000	492
IT005012	0.5	12	19.8	179	2	479	500	327
IT005016	0.5	16	22.0	198	3	599	500	462
IT005024	0.5	24	27.5	248	4	872	300	424
IT010004	1.0	4	14.7	132	2	286	1000	373
IT010008	1.0	8	19.2	175	2	509	500	342
IT010012	1.0	12	23.3	210	3	712	500	518
IT010016	1.0	16	26.1	237	3	931	300	441
IT015004	1.5	4	16.8	152	2	348	1000	510
IT015008	1.5	8	22.3	202	3	645	500	485
IT015012	1.5	12	27.4	247	4	929	300	441

* Multiple triads available on request.