

INSTRUMENTATION

INDIVIDUAL & OVERALL SCREENED / APL ARMoured DEKABON

Construction

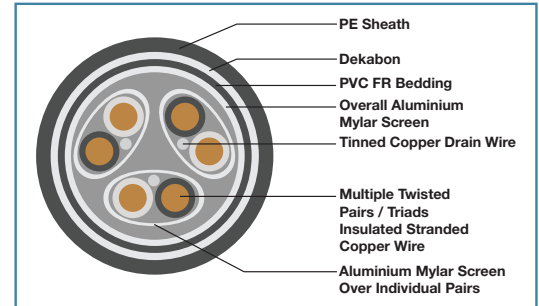
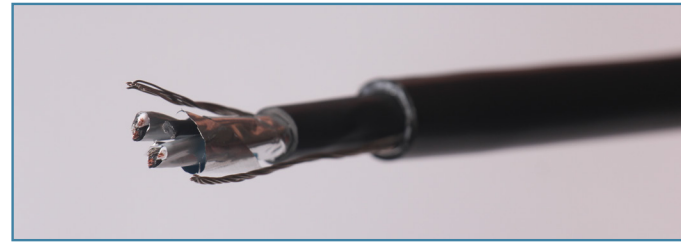
Individual and overall screened with specially selected lay schemes in order to counter static and cross talk noises. A "clean" and accurate signal can therefore be expected to be transferred. APL Armouring is provided for increased mechanical protection. The APL/PE Sheath provides an excellent moisture barrier.

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	0.3mm Aluminium Polyethylene Laminated (APL) with 0.5mm ² bunched tinned copper drainwire
Outer Sheath	Polyethylene (PE)



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								
AIP005002	0.5	2	13.4	121	1	177	1000	264
AIP005004	0.5	4	14.8	133	2	234	1000	321
AIP005008	0.5	8	18.5	167	2	378	1000	524
AIP005012	0.5	12	20.7	187	3	465	500	520
AIP005016	0.5	16	23.6	213	3	591	500	458
AIP005024	0.5	24	27.1	244	4	781	500	537
AIP010002	1.0	2	14.9	135	2	224	1000	311
AIP010004	1.0	4	16.5	149	2	297	1000	459
AIP010008	1.0	8	20.9	186	3	496	1000	642
AIP010012	1.0	12	24.4	220	3	682	500	503
AIP010016	1.0	16	27.0	244	4	845	500	569
AIP010024	1.0	24	32.0	289	4	1196	300	303
AIP015002	1.5	2	16.5	149	2	267	1000	429
AIP015004	1.5	4	19.2	173	2	388	1000	534
AIP015008	1.5	8	23.9	215	3	627	500	476
AIP015012	1.5	12	27.5	248	4	839	500	664
AIP015016	1.5	16	31.4	283	4	1099	300	492
AIP015024	1.5	24	36.8	332	5	1534	300	704
TRIADS								
AIT005004	0.5	4	16.0	144	2	271	1000	358
AIT005008	0.5	8	20.4	184	2	444	1000	590
AIT005012	0.5	12	24.0	217	3	614	500	469
AIT005016	0.5	16	26.1	236	3	747	500	520
AIT005024	0.5	24	32.0	289	4	1070	300	483
AIT010004	1.0	4	18.8	170	2	393	1000	539
AIT010008	1.0	8	23.4	213	3	641	500	483
AIT010012	1.0	12	27.5	248	4	868	500	678
AIT010016	1.0	16	30.7	278	4	1126	300	500
AIT015004	1.5	4	21.0	189	3	472	1000	618
AIT015008	1.5	8	26.5	239	3	787	500	540
AIT015012	1.5	12	32.0	289	4	1126	300	500

* Multiple triads available on request.