INSTRUMENTATION

OVERALL SCREENED / UNARMOURED DEKARON

Construction

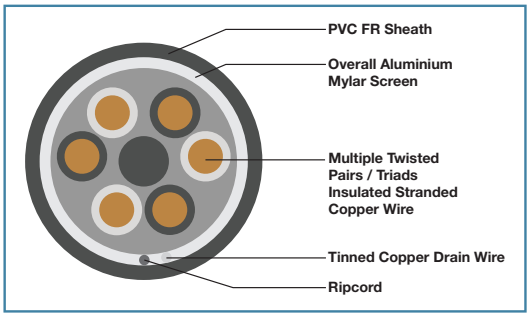
Overall screened with specially selected lay schemes in order to counter static and cross talk noises. A "clean" and accurate signal can therefore be expected to be transferred. A communication wire is standard in all multi-pair / triad cables.

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
Overall Screening	Aluminium/Polyester tape with a 0.5mm² bunched tinned copper drainwire.
Outer Sheath	Flame retardant PVC - Temperature rating 90°C

Electrical Parameters

Rated insulation voltage 300/500V

	0.5mm²	1.0mm²	1.5mm²
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 mm²	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 mm²	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								
MP005001	0.5	1	5.6	51	00	42	1000	91
MP005002	0.5	2	10.6	81	0	88	1000	153
MP005004	0.5	4	13.3	96	0	128	1000	203
MP005008	0.5	8	15.8	121	1	212	1000	299
MP005012	0.5	12	17.5	143	2	282	500	216
MP005016	0.5	16	20.3	158	2	350	500	250
MP005024	0.5	24	22.9	183	2	491	500	333
MP010001	1.0	1	6.4	58	00	60	1000	109
MP010002	1.0	2	10.8	98	0	131	1000	206
MP010004	1.0	4	12.4	112	1	183	1000	258
MP010008	1.0	8	16.1	146	2	315	1000	477
MP010012	1.0	12	18.7	169	2	428	500	285
MP010016	1.0	16	21.1	190	3	562	500	368
MP010024	1.0	24	24.1	217	3	772	300	394
MP015001	1.5	1	7.2	66	00	73	1000	138
MP015002	1.5	2	12.4	112	1	166	1000	241
MP015004	1.5	4	14.7	132	2	247	1000	334
MP015008	1.5	8	18.6	168	2	407	500	275
MP015012	1.5	12	22.1	199	3	582	500	453
MP015016	1.5	16	24.9	224	3	760	300	390
MP015024	1.5	24	28.4	256	4	1050	300	477
TRIADS								
MT005001	0.5	1	5.9	54	00	51	1000	100
MT005004	0.5	4	11.8	107	1	164	1000	239
MT005008	0.5	8	15.7	141	2	280	1000	367
MT005012	0.5	12	18.8	169	2	383	500	263
MT005016	0.5	16	21.2	191	3	502	500	413
MT005024	0.5	24	26.5	239	3	726	300	380
MT010001	1.0	1	6.8	61	00	72	1000	121
MT010004	1.0	4	14.3	129	1	255	1000	342
MT010008	1.0	8	18.3	167	2	428	500	385
MT010012	1.0	12	22.5	205	3	620	500	472
MT010016	1.0	16	25.4	229	3	809	300	405
MT015001	1.5	1	7.7	69	00	90	1000	155
MT015004	1.5	4	16.4	148	2	325	1000	487
MT015008	1.5	8	21.8	197	3	580	500	452
MT015012	1.5	12	26.8	241	4	841	300	414

* Multiple triads available on request.