105°C individual & overall screened instrumentation Cable

Eland Product Group: ...

APPLICATION

For interconnections between instruments, sensors and monitors. 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.

CHARACTERISTICS

Voltage Rating
300/500V

Maximum Operating Temperature
+105°C

Minimum Bending Radius
9x Overall Diameter

CONSTRUCTION

Conductor
Class 4 Plain annealed bunched copper

Insulation
XLPE (Cross-Linked Polyethylene)

Individual Screen
Al/PET (Aluminium/Polyester Tape)

Drain Wire
Tinned copper

Overall Screen
Al/PET (Aluminium/Polyester Tape)

Drain Wire
Tinned copper

Sheath
PVC (Polyvinyl Chloride)

Core Identification
○ White Cores ● Black numbered
Pairs: ○ White ● Black, numbered
Triples: ○ White ● Black ● Red, numbered

Outer Sheath Colour
● Black

STANDARDS

SANS 1411 Part 4, SANS 1411 Part 2,

Flame retardant to IEC 60332-1-2

ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.

UKAS ISO/IEC 17025 Testing laboratory accreditation 8578
bsi. ISO 9001 Quality Management FS 672069
ISO 14001 Environmental Management EMS 672067
ISO 45001 Occupational Health and Safety Management OHS 672066

REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.

bsi. RoHS Trusted KITEMARK™ KM 634267
RoHS
CE

DIMENSIONS

ELAND PART NO.	NO. OF PAIRS/TRIPLE	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
ENU02P05IAPVBK	2P	0.5	9.7	109
ENU02P10IAPVBK	2P	1	11.1	148
ENU02P15IAPVBK	2P	1.5	12.7	183
ENU04P05IAPVBK	4P	0.5	11	159
ENU04P10IAPVBK	4P	1	12.8	213
ENU04P15IAPVBK	4P	1.5	15	297
ENU08P05IAPVBK	8P	0.5	14.3	273
ENU08P10IAPVBK	8P	1	16.7	377
ENU08P15IAPVBK	8P	1.5	19.7	494
ENU12P05IAPVBK	12P	0.5	16.9	347
ENU12P10IAPVBK	12P	1	20.2	544
ENU12P15IAPVBK	12P	1.5	23.3	685
ENU16P05IAPVBK	16P	0.5	19.4	458
ENU16P10IAPVBK	16P	1	22.9	691
ENU16P15IAPVBK	16P	1.5	26.8	903
ENU24P05IAPVBK	24P	0.5	22.9	627
ENU24P10IAPVBK	24P	1	27.4	998
ENU24P15IAPVBK	24P	1.5	32.2	1305
ENU04T05IAPVBK	4T	0.5	12.2	189
ENU04T10IAPVBK	4T	1	14.7	286
ENU04T15IAPVBK	4T	1.5	16.8	348
ENU08T05IAPVBK	8T	0.5	16.2	330
ENU08T10IAPVBK	8T	1	19.2	509
ENU08T15IAPVBK	8T	1.5	22.3	645
ENU12T05IAPVBK	12T	0.5	19.8	479
ENU12T10IAPVBK	12T	1	23.3	712
ENU12T10IAPVBK	12T	1.5	27.4	929
ENU16T05IAPVBK	16T	0.5	22	599
ENU16T10IAPVBK	16T	1	26.1	931
ENU24T05IAPVBK	24T	0.5	27.5	872

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm²	MAXIMUM DC RESISTANCE ohms/km		NOMINAL MUTUAL CAPACITANCE nF/km	NOMINAL GROUND CAPACITANCE nF/km	NOMINAL INDUCTANCE mH/km
	Single Pair/Triad & Multicore	Multi-Pair Triad			
0.5	39.0	39.6	100	200	0.707
1	19.5	19.8	120	240	0.629
1.5	13.3	13.5	120	240	0.645

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CAPACITANCE

NOMINAL CROSS SECTIONAL AREA mm²	CAPACITANCE pF/m	
	Nominal	Maximum
Core / Core Screened		
0.5	84	90
1.0	104	112
1.5	101	121
Core / Screen		
0.5	158	169
1.0	196	210
1.5	190	228
Core / Core No Screen		
0.5	53	56
1.0	63	66
1.5	61	70
Core / Screen OS only		
0.5	100	106
1.0	119	124
1.5	115	131