



105°C overall screened instrumentation Cable



Eland Product Group: ENU

APPLICATION

For interconnections between instruments, sensors and monitors. 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.

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)

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.



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™.





DIMENSIONS

ELAND PART NO.	NO. OF PAIRS/TRIPLE	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
ENU01P05CAPVBK	1P	0.5	5.6	42
ENU01P10CAPVBK	1P	1	6.4	60
ENU01P15CAPVBK	1P	1.5	7.2	73
ENU02P05CAPVBK	2P	0.5	10.6	88
ENU02P10CAPVBK	2P	1	10.8	131
ENU02P15CAPVBK	2P	1.5	12.4	166
ENU04P05CAPVBK	4P	0.5	13.3	128
ENU04P10CAPVBK	4P	1	12.4	183
ENU04P15CAPVBK	4P	1.5	14.7	247
ENU08P05CAPVBK	8P	0.5	15.8	212
ENU08P10CAPVBK	8P	1	16.1	315
ENU08P15CAPVBK	8P	1.5	18.6	407
ENU12P05CAPVBK	12P	0.5	17.5	282
ENU12P10CAPVBK	12P	1	18.7	428
ENU12P15CAPVBK	12P	1.5	22.1	582
ENU16P05CAPVBK	16P	0.5	20.3	350
ENU16P10CAPVBK	16P	1	21.1	562
ENU16P15CAPVBK	16P	1.5	24.9	760
ENU24P05CAPVBK	24P	0.5	22.9	491
ENU24P10CAPVBK	24P	1	24.1	772
ENU24P15CAPVBK	24P	1.5	28.4	1050
ENU01T05CAPVBK	1T	0.5	5.9	51
ENU01T10CAPVBK	1T	1	6.8	72
ENU01T15CAPVBK	1T	1.5	7.7	90
ENU04T05CAPVBK	4T	0.5	11.8	164
ENU04T10CAPVBK	4T	1	14.3	255
ENU04T15CAPVBK	4T	1.5	16.4	325
ENU08T05CAPVBK	8T	0.5	15.7	280
ENU08T10CAPVBK	8T	1	18.3	428
ENU08T15CAPVBK	8T	1.5	21.8	580
ENU12T05CAPVBK	12T	0.5	18.8	383
ENU12T10CAPVBK	12T	1	22.5	620
ENU12T15CAPVBK	12T	1.5	26.8	841
ENU16T05CAPVBK	16T	0.5	21.2	502
ENU16T10CAPVBK	16T	1	25.4	809
ENU24T05CAPVBK	24T	0.5	26.5	726

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	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



CAPACITANCE

NOMINAL CROSS SECTIONAL AREA mm ²	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

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.