

NF M 87 - 202 EISF

Individually and Collectively Screened, Unarmoured, LSZH Cable



Eland Product Group: I

APPLICATION

These cables are designed for safe use in petroleum and petrochemical units particularly for the transmission of AC or DC analogue signals. Suitable for aliphatic hydrocarbons resistance applications.

CONSTRUCTION

Conductor

Class 1 solid copper conductor according to UTE C 32-014
Class 2 stranded copper conductor according to UTE C 32-014

Insulation

PVC (Polyvinyl Chloride) according to NF C32-020

Individual Binder Tape

PET (Polyester Tape)

Individual Screen

AL/PET (Aluminium/Polyester Tape)

Individual Sheath

PVC (Polyvinyl Chloride) according to NF C32-020

Overall Binder Tape

PET (Polyester Tape)

Collective Screen

AL/PET (Aluminium/Polyester Tape)

Sheath

PVC (Polyvinyl Chloride) according to NF C32-020

CABLE STANDARDS

NF M 87-202, UTE C 32-014, NF C 32-020,
BS EN/IEC 60331-21, BS EN/IEC 60332-1,
BS EN/IEC 60332-3-24



The electrical and dimensional properties of this product are measured by the Technical and Quality Assurance department at the Eland Cables laboratory. Cable performance in respect of conductor resistance, construction quality (workmanship), dimensional consistency, and other parameters are verified to published standards and approved product drawings. Conformance to RoHS (Restriction of the use of Hazardous Substances) is determined and confirmed.

CHARACTERISTICS

Voltage Rating (U_o/U)

300/500V

Installation Temperature Range

+5°C to +50°C

Operating Temperature

+90°C

Core Identification

Pairs: ○ White and ● Red numbered

Triples: ● Blue ○ White and ● Red numbered

Sheath Colour

● Light Blue

DIMENSIONS

ELAND PART NO.	NO. OF PAIRS/TRIPLE	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm
IEISF010005	1P	0.5	6.1
IEISF010088	1P	0.88	7.4
IEISF01015	1P	1.5	8.3
IEISF01T0005	1T	0.5	6.3
IEISF01T0088	1T	0.88	7.7
IEISF01T015	1T	1.5	8.7
IEISF020005	2P(Q)	0.5	6.7
IEISF020088	2P(Q)	0.88	8.5
IEISF02015	2P(Q)	1.5	9.4
IEISF02T0005	2T	0.5	10.9
IEISF02T0088	2T	0.88	14.1
IEISF02T015	2T	1.5	16.1
IEISF030005	3P	0.5	11.1
IEISF030088	3P	0.88	14.3
IEISF03015	3P	1.5	16.2
IEISF03T0005	3T	0.5	11.6
IEISF03T0088	3T	0.88	15
IEISF03T015	3T	1.5	17.1
IEISF070005	7P	0.5	15.2
IEISF070088	7P	0.88	19.5
IEISF07015	7P	1.5	22.2
IEISF07T0005	7T	0.5	15.9
IEISF07T0088	7T	0.88	25
IEISF07T015	7T	1.5	23.8
IEISF120005	12P	0.5	20.6
IEISF120088	12P	0.88	26.4
IEISF12015	12P	1.5	30.2
IEISF12T0005	12T	0.5	21.6
IEISF12T0088	12T	0.88	27.8
IEISF12T015	12T	1.5	31.9
IEISF190005	19P	0.5	24.7
IEISF190088	19P	0.88	31.2
IEISF19015	19P	1.5	35.7
IEISF19T0005	19T	0.5	25.9
IEISF19T0088	19T	0.88	32.9
IEISF19T015	19T	1.5	37.7
IEISF270005	27P	0.5	29.7
IEISF270088	27P	0.88	37.7
IEISF27015	27P	1.5	43.3
IEISF27T0005	27T	0.5	31.2
IEISF27T0088	27T	0.88	39.8
IEISF27T015	27T	1.5	45.8

P = Pairs
Q = Quad
T = Triple

CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm ²	CONDUCTOR CLASS	MAXIMUM DC RESISANCE OF CONDUCTOR AT 20°C ohms/km
0.5	1	37.9
0.88	2	21.6
1.5	1	12.5

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	CONDUCTOR CLASS	MAXIMUM MUTUAL CAPACITANCE	
		Between Conductors pF/m	Between Conductors and Screens pF/m
0.5	1	160	230
0.88	2	145	210
1.5	1	85	180

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.