NF M 87 - 202 EGPF
Collectively Screened, Lead Covered, Double Steel Tape Armoured 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 and direct burial applications, with a flame retardant, sunlight, mineral oil and hydrocarbon resistant sheath.

CONSTRUCTION

Phase 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 C 32-020

Binder Tape
PET (Polyester tape)

Collective Screen
AL/PET (Aluminium/Polyester Tape)

Bedding
PVC (Polyvinyl Chloride) according to NF C 32-020

Cover
Lead cover over the bedding layer

Inner Sheath
PVC (Polyvinyl Chloride) according to NF C 32-020

Armour
Double steel tape

Outer Sheath
PVC (Polyvinyl Chloride) according to NF C 32-020

CABLE STANDARDS

NF M 87-202, UTE C 32-014, NF C 32-020,
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 (Uo/U)
300/500V

Temperature Rating
+5°C to +90°C

Core Identification
Pairs: ○ White and ● Red numbered
Triples: ● Blue ○ White and ● Red numbered

Outer Sheath Colour
● Light Blue

ISSUE NO 01-03 -2014

DIMENSIONS

ELAND PART NO.	NO. OF PAIRS/TRIPLE	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL OVERALL DIAMETER mm
IEGPF010005	1P	0.5	13.7
IEGPF010088	1P	0.88	14.2
IEGPF01015	1P	1.5	15.1
IEGPF01T0005	1T	0.5	13.7
IEGPF01T0088	1T	0.88	14.6
IEGPF01T015	1T	1.5	16.6
IEGPF020005	2P(Q)	0.5	13.7
IEGPF020088	2P(Q)	0.88	19.5
IEGPF02015	2P(Q)	1.5	21.5
IEGPF02T0005	2T	0.5	17.4
IEGPF02T0088	2T	0.88	20.4
IEGPF02T015	2T	1.5	22.4
IEGPF030005	3P	0.5	17.4
IEGPF030088	3P	0.88	20.4
IEGPF03015	3P	1.5	22.3
IEGPF03T0005	3T	0.5	17.9
IEGPF03T0088	3T	0.88	21.1
IEGPF03T015	3T	1.5	24.2
IEGPF070005	7P	0.5	20.1
IEGPF070088	7P	0.88	25
IEGPF07015	7P	1.5	28.9
IEGPF07T0005	7T	0.5	20.8
IEGPF07T0088	7T	0.88	26
IEGPF07T015	7T	1.5	30.6
IEGPF120005	12P	0.5	24.6
IEGPF120088	12P	0.88	31.6
IEGPF12015	12P	1.5	36
IEGPF12T0005	12T	0.5	25.6
IEGPF12T0088	12T	0.88	33.2
IEGPF12T015	12T	1.5	38.3
IEGPF190005	19P	0.5	28.1
IEGPF190088	19P	0.88	35.8
IEGPF19015	19P	1.5	41.1
IEGPF19T0005	19T	0.5	29.9
IEGPF19T0088	19T	0.88	38.1
IEGPF19T015	19T	1.5	43.2
IEGPF270005	27P	0.5	32.2
IEGPF270088	27P	0.88	41.6
IEGPF27015	27P	1.5	47.4
IEGPF27T0005	27T	0.5	34.3
IEGPF27T0088	27T	0.88	43.7
IEGPF27T015	27T	1.5	50.1

P = Pairs
Q = Quad
T = Triple

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CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm²	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 mm²	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