

# NF M 87 - 202 EGFA

## Collectively Screened, 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

#### 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)

#### 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 (U<sub>o</sub>/U)**  
300/500V

**Temperature Rating**  
+5°C to +50°C

**Operating Temperature**  
+90°C

#### Core Identification

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

#### Outer Sheath Colour

● Light Blue

## DIMENSIONS

ELAND PART NO.	NO. OF PAIRS/TRIPLE	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL OVERALL DIAMETER mm
IEGFA010005	1P	0.5	7.9
IEGFA010088	1P	0.88	9.2
IEGFA01015	1P	1.5	10.1
IEGFA01T0005	1T	0.5	8.2
IEGFA01T0088	1T	0.88	9.6
IEGFA01T015	1T	1.5	10.6
IEGFA020005	2P(Q)	0.5	8.6
IEGFA020088	2P(Q)	0.88	10.1
IEGFA02015	2P(Q)	1.5	11.2
IEGFA02T0005	2T	0.5	11.4
IEGFA02T0088	2T	0.88	14.2
IEGFA02T015	2T	1.5	16.2
IEGFA030005	3P	0.5	11.4
IEGFA030088	3P	0.88	14.2
IEGFA03015	3P	1.5	16.1
IEGFA03T0005	3T	0.5	11.9
IEGFA03T0088	3T	0.88	14.9
IEGFA03T015	3T	1.5	17.8
IEGFA070005	7P	0.5	13.9
IEGFA070088	7P	0.88	18.6
IEGFA07015	7P	1.5	21.3
IEGFA07T0005	7T	0.5	14.6
IEGFA07T0088	7T	0.88	19.6
IEGFA07T015	7T	1.5	23
IEGFA120005	12P	0.5	18.2
IEGFA120088	12P	0.88	24
IEGFA12015	12P	1.5	28.2
IEGFA12T0005	12T	0.5	19.2
IEGFA12T0088	12T	0.88	25.4
IEGFA12T015	12T	1.5	30.3
IEGFA190005	19P	0.5	20.7
IEGFA190088	19P	0.88	28
IEGFA19015	19P	1.5	32.9
IEGFA19T0005	19T	0.5	22.3
IEGFA19T0088	19T	0.88	30.1
IEGFA19T015	19T	1.5	35
IEGFA270005	27P	0.5	24.6
IEGFA270088	27P	0.88	33.4
IEGFA27015	27P	1.5	39
IEGFA27T0005	27T	0.5	26.5
IEGFA27T0088	27T	0.88	35.5
IEGFA27T015	27T	1.5	41.5

P = Pairs  
Q = Quad  
T = Triple

## CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	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 <sup>2</sup>	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.