

NF M 87-202 EIFA



- Outer Sheath
- Inner Sheath
- Overall Screen
- Conductor
- Insulation
- Individual Sheath
- Individual Screen
- Individual Binder Tape
- Overall Binder Tape
- Armour

APPLICATION

These NF M 87-202 EIFA instrumentation cables are used for safety extra-low use in petroleum and petrochemical units particularly for the transmission of a.c. or d.c. analogue signals, They are well adapted to underground use in industrial applications where hydrocarbons may be present and mechanical protections are needed (refinery areas, chemical plant...).

Standards References:

- NF M 87-202
- UTE C 32-014
- NF C 32-020
- IEC 60332-1
- IEC 60332-3-24

Conductor:

Solid or Stranded copper conductor

Insulation:

PVC (70 mm maximum pair length)

Individual Binder Tape:

Polyster tape

Individual Screen:

Aluminium/polyester tape

Individual Sheath:

PVC

Overall Binder Tape :

Polyster tape

Collective Screen:

Aluminium/polyester tape

Inner Sheath:

PVC

Amouring:

Double Steel Tape

Outer Sheath:

PVC (Flame retardant, sunlight, mineral oil and hydrocarton resistant)

Outer Sheath Colour:

Light-blue

Core identification:

Colours	Natural	Red	Blue	Yellow
1 pair	X	X		
1 triple	X	X	X	
1 quad	X	X	X	X

Characteristics

Voltage Rating: 300/500V

Operating Temperature: -40°C/+90°C

Installation Temperature: MAX+50°C

Maximum Voltage: 250V

Voltage Test: 2000V

Maximum conductor d.c. Resistance:

Conductor Size	Ohm/km at +20°C
1/0.80mm(0.50 sqmm)	37.50
7/0.40mm(0.88 sqmm)	21.40
7/0.53mm(1.50 sqmm)	12.50

Capacitance between cond. (nf/km):

0.5 sqmm ≤ 145

0.88 sqmm ≤ 160

1.50 sqmm ≤ 180

Type/codification:

1 Serie	Number of pairs, triples or quads / 01 to 27
2 Serie	Lay up in pair(IP) ,triple (IT) , quads (IQ)
3 Serie	Core section 05 (0.5mm ²) , 09 (0.88 mm ²) or 15(1.5mm ²)
4 Serie	Overall screen(EG) or individual screen + overall screen(EI)
5 Serie	Mechanical protection: without armour (SF), with armour (FA), with lead + armour(PF)

Natural cores printed with pair/triple number

Dimensions and Weight:

NF M 87-202	Number of beams x cross section	Cond. mm ²	Outer Diameter(mm)		Weight (kg/km)
			Min.	Max.	
03 IP 05 EIFA	3X2X0.50	0.50	14.20	16.20	355
07 IP 05 EIFA	7X2X0.50	0.50	18.60	21.40	570
12 IP 05 EIFA	12X2X0.50	0.50	23.30	26.70	850
19 IP 05 EIFA	19X2X0.50	0.50	28.10	32.30	1210
27 IP 05 EIFA	27X2X0.50	0.50	32.80	37.60	1600
03 IP 09 EIFA	3X2X0.88	0.88	18.50	20.40	465
07 IP 09 EIFA	7X2X0.88	0.88	22.90	25.30	792
12 IP 09 EIFA	12X2X0.88	0.88	29.00	32.00	1205
19 IP 09 EIFA	19X2X0.88	0.88	34.80	38.40	1709
27 IP 09 EIFA	27X2X0.88	0.88	40.60	44.80	2275

03 IP 09 EIFA	3X2X0.88	0.88	16.70	19.20	270
07 IP 09 EIFA	7X2X0.88	0.88	22.40	25.70	800
12 IP 09 EIFA	12X2X0.88	0.88	28.10	32.30	1185
19 IP 09 EIFA	19X2X0.88	0.88	34.10	39.10	1720
27 IP 09 EIFA	27X2X0.88	0.88	39.80	45.70	2285
01 IP 15 EIFA	1X2X1.50	1.50	10.20	11.70	200
07 IT 05 EIFA	7X3X0.50	0.50	20.30	23.30	690
12 IT 05 EIFA	12X3X0.50	0.50	25.40	28.00	1005
12 IT 09 EIFA	12X3X0.88	0.88	25.00	28.70	1025
01 IT 15 EIFA	1X3X1.50	1.50	10.50	12.00	220