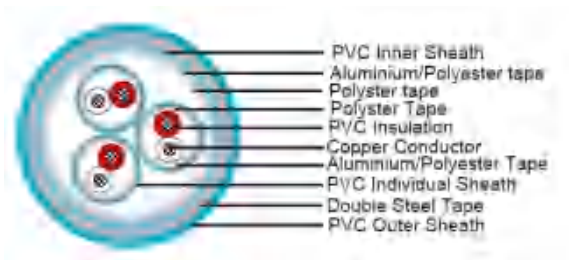


Applications:

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...).

Construction:



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

Armouring:

Double Steel Tape

Outer Sheath:

PVC (Flame retardant, sunlight, mineral oil and hydrocarbon 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 |

Natural cores printed with pair/triple number

Standards References:

NF M 87-202

UTE C 32-014

NF C 32-020

IEC 60332-1

IEC 60332-3-24

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) |

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 |