



# Caledonian

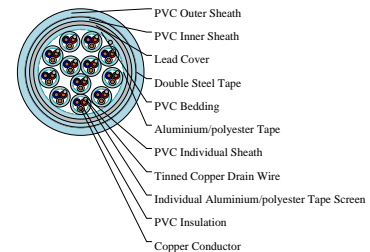
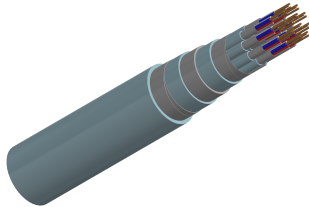
Instrumentation Cables (French Standard)

[www.caledonian-cables.com](http://www.caledonian-cables.com)

[marketing@caledonian-cables.com](mailto:marketing@caledonian-cables.com)

## NF M 87-202 EIPF

12 IT 05 EIPF 12X3X0.5



## APPLICATIONS

These NF M 87-202 EIPF 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, in moist areas, where chemical and mechanical protection are needed.

## STANDARDS

NF M 87-202

UTE C 32-014

NF C 32-020

IEC 60332-1

IEC 60332-3-24

## CABLE CONSTRUCTION

Conductor: Solid copper conductor

Insulation: PVC (70 mm maximum pair length)

Individual Binder Tape: Polyester tape

Individual Screen: Aluminium/Polyester tape with tinned copper drain wire

Individual Sheath: PVC

Overall Binder Tape : Polyester tape

Collective Screen: Aluminium/Polyester tape with tinned copper drain wire

Bedding: PVC

LEAD Cover

Inner Sheath: PVC

Armouring: Double Steel Tape

Outer Sheath: PVC (Flame retardant, sunlight, mineral oil and hydrocarbon resistant)

## COLOUR CODE

Insulation Core Identification:

Triple: Natural+Red+Blue

Natural cores printed with pair/triple number



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Outer Sheath Colour: Light-blue

## PHYSICAL AND THERMAL PROPERTIES

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:

1/0.80mm(0.50 sqmm) 37.50 Ohm/km at +20°C

Capacitance between cond. (nf/km):

0.5 sqmm ≤ 145

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<sup>2</sup>) , 09 (0.88 mm<sup>2</sup>) or 15(1.5mm<sup>2</sup>)

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)

## DIMENSION AND PARAMETERS

Caledonian Cable Code	No. of Cores × Cross-sectional Area	Nominal Cross-sectional Area	Overall Diameter (min.)	Overall Diameter (max.)	Approx. Weight
	No.×mm <sup>2</sup>	mm <sup>2</sup>	mm	mm	kg/km
12 IT 05 EIPF	12X3X0.5	0.5	29.3	32.3	2175