



# Caledonian

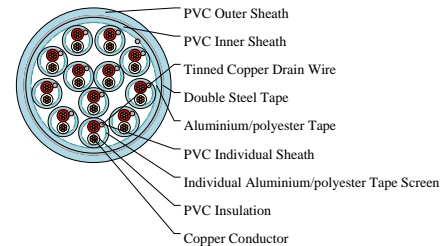
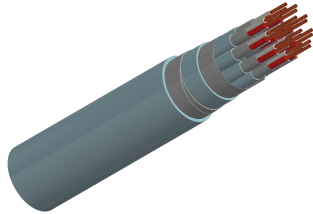
Instrumentation Cables (French Standard)

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

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

## NF M 87-202 EIFA

12 IP 09 EIFA 12X2X0.88



## 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...).

## STANDARDS

NF M 87-202

UTE C 32-014

NF C 32-020

IEC 60332-1

IEC 60332-3-24

## CABLE CONSTRUCTION

Conductor: Stranded 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

Inner Sheath: PVC

Armouring: Double Steel Tape

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

## COLOUR CODE

Insulation Core Identification:

Pair: Natural+Red

Natural cores printed with pair/triple number

Outer Sheath Colour: Light-blue

## PHYSICAL AND THERMAL PROPERTIES



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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:

7/0.40mm(0.88 sqmm) 21.40 Ohm/km at +20°C

Capacitance between cond. (nf/km):

0.88 sqmm ≤ 160

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 IP 09 EIFA	12X2X0.88	0.88	29	32	1205