

## NF M87-202 EISF Individually and Collectively Screened, Unarmoured, PVC Instrumentation Cable



### Description

NF M87-202 is a French Standard that specifies requirements for both armoured and unarmoured instrumentation cables used for interconnecting electrical circuits and transmitting communication signals within petroleum and petrochemical process plants.

NF M87-202 instrumentation cables are available in core, pair, and multi-pair constructions, with both armoured and unarmoured options. Armoured variants incorporate double steel tape armouring to provide enhanced mechanical protection and are suitable for direct burial installations. The cables feature PVC insulation and a specially formulated PVC outer sheath, providing flame retardancy as well as resistance to ultraviolet radiation, mineral oils, and hydrocarbons.

All NF M87-202 instrumentation cables are screened to ensure signal integrity, using collectively applied aluminium/polyester (Al/PET) tape. EISF and EIFA cable types are collectively and individually screened pairs

These cables are designed for safe extra-low voltage applications and are suitable for the transmission of AC and DC analogue signals. They exhibit resistance to aliphatic and aromatic hydrocarbons and are rated for a nominal voltage of 300/500 V.

### Key Features



**Voltage Rating**  
300/500 Volts



**Minimum Bending Radius**  
10 x Overall Diameter



**Flame Retardancy**  
BS EN/IEC 60332-1  
BS EN/IEC 60332-3-24



**Temperature Limits**  
Installation Temperature: -5°C to +50°C  
Operating Temperature: -30°C +90°C

### Core Colours

Pairs: White Red

Triples: White Red Blue

Quads: White Red Blue Yellow

### Standards

- NF EN 60228
- NF M 87-202
- BS EN/IEC 60332-3-24
- BS EN/IEC 60332-1

### Construction

- **Conductor:** Class 1 solid copper conductor  
Class 2 stranded copper conductor
- **Insulation:** Polyvinyl Chloride (PVC)
- **Binder Tape:** Polyester Tape (PET) Individually Wrapped
- **Screen:** Aluminium/Polyester Tape (AL/PET) Individually Screened
- **Individual Sheath:** Polyvinyl Chloride (PVC)
- **Overall Binder Tape:** Polyester Tape (PET)
- **Overall Tape Screen:** Aluminium/Polyester Tape Screen (AL/PET)
- **Outer Sheath:** Polyvinyl Chloride (PVC)
- **Sheath Colour:** Blue

### QA Lab

#### Cleveland Cable Test & Training Lab

Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.



#### CPR

Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.



### Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.



#### ecovadis

Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

#### ecovadis

## NF M87-202 EISF Individually and Collectively Screened, Unarmoured, PVC Instrumentation Cable - Dimensions

Reference	Conductor Size (mm <sup>2</sup> )	No Of Cores	No Of Pairs	Overall Diameter(mm)
NFM87-202 EISF ICAT1X2X0/5	0.5	2	1	6.1
NFM87-202 EISF ICAT1X3X0/5	0.5	3	1 Triple	6.3
NFM87-202 EISF ICAT2X2X0/5	0.5	4	1 Quad	6.7
NFM87-202 EISF ICAT3X3X0/5	0.5	9	3 Triple	16.4
NFM87-202 EISF ICAT7X2X0/5	0.5	14	7	15.4
NFM87-202 EISF ICAT7X3X0/5	0.5	21	7 Triple	16.0
NFM87-202 EISF ICAT12X2X0/5	0.5	24	12	20.7
NFM87-202 EISF ICAT12X3X0/5	0.5	36	12 Triple	22.0
NFM87-202 EISF ICAT19X2X0/5	0.5	38	19	25.0
NFM87-202 EISF ICAT27X2X0/5	0.5	54	27	30.0
NFM87-202 EISF ICAT19X3X0/5	0.5	57	19 Triple	26.0
NFM87-202 EISF ICAT27X3X0/5	0.5	81	27 Triple	31.5
NFM87-202 EISF ICAT1X2X1/5	1.5	2	1	7.4
NFM87-202 EISF ICAT1X3X1/5	1.5	3	1 Triple	8.7
NFM87-202 EISF ICAT2X2X1/5	1.5	4	1 Quad	9.4
NFM87-202 EISF ICAT3X3X1/5	1.5	9	3 Triple	17.2
NFM87-202 EISF ICAT7X2X1/5	1.5	14	7	22.4
NFM87-202 EISF ICAT7X3X1/5	1.5	21	7 Triple	24.0
NFM87-202 EISF ICAT12X2X1/5	1.5	24	12	30.2
NFM87-202 EISF ICAT12X3X1/5	1.5	36	12 Triple	32.0
NFM87-202 EISF ICAT19X2X1/5	1.5	38	19	35.0
NFM87-202 EISF ICAT27X2X1/5	1.5	54	27	43.5
NFM87-202 EISF ICAT19X3X1/5	1.5	57	19 Triple	38.0
NFM87-202 EISF ICAT27X3X1/5	1.5	81	27 Triple	46.0

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