



## INNOVCABLE EXTREME FIRE RESISTANT JE-H(St)H FE180 E30-E90 - IEC60331



1. Conductor: solid copper 0,8 mm Ø
  2. Insulation: mica ceramic insulated with cross-linked, cross-linked, LSZH, halogen-free polymeric compound
  3. Torsion:
    - (a) 2 conductors forming a pair
    - b) 4 pairs forming a bundle
    - c) bundles assembled in layers
  4. Helically applied polyester tape.
  5. Aluminized polyester tape shield + 0,8 mm Ø drain conductor
  6. Outer jacket: LSZH halogen-free polymer compound in orange, or Red when (BMK).
- Operating voltage: max. 225 V
- Voltage test:
- conductor - conductor: 500 V
- conductor - outer jacket: 2000 V
- Circuit resistance: 20°C: max. 73,2 Ω/km
- Insulation resistance: min. 100 MΩxkm
- Mutual Capacitance: (at 800 Hz) max. 1201 nF/km
- Mutual Capacitance: (at 800 Hz) max. 200 pF/100m
- Inductance: 0,65 mH/km
- Linear attenuation: (at 800 Hz) approx. 1.2 dB/km



## Identification

**Each beam:**

**Pair 1: blue - red**

**Pair 2: grey - yellow**

**Pair 3: green - brown**

**Pair 4: white - black**

**The individual beams are identified by numbered tape.**

## Applicable Specifications

**DIN VDE 0815**

**DIN VDE 0472 part 814**

**IEC 60331**

**DIN VDE 4102 part 12**

**IEC 60332-1**

**IEC 60332-3**

**IEC 60754-1**

**IEC 60754-2**

**IEC 61034-2**



## Applications

**Halogen-free installation cable for industrial electronics, with improved properties under fire, applied in measuring, data and control systems. The electrostatic shielding protects the transmission circuits against external disturbing electromagnetic impacts. Suitable for fixed installation in dry or damp locations where people and material goods need to be protected in case of fire. Recommended for public and industrial installations where there are agglomerations of people, and for installations of high-value assets. Not to be applied directly to ground or water, not to be used outdoors (except when adequately protected from sunlight), not intended for supply. Cable is safe in the 180 minute test (acc) - insulation remains compact under open flame impact throughout the 180 minute test period. Circuit integrity retained 30 or 90 minutes, depending on installation technique.**

**E30: The cable allows a circuit integrity of 30 minutes under fire, sufficient for the evacuation of people and animals from the building under fire. During the 30-minute period it allows operation of alarm systems, panic lighting, passenger lifts for evacuation, except cables installed in shaft stairwells and machine rooms.**

**E90: The cable provides 90 minutes circuit integrity under fire, in subsea stations under increased pressure for the purpose of preventing smoke and temperature rise in safety stages and internal rooms, shaft ladders and machine rooms, lifts for fire brigades and hospital lifts.**

## Maximum Conductor Temperature

**During installation: -5 °C to +50 °C**

**Fixed installed: -30°C up to +70°C**

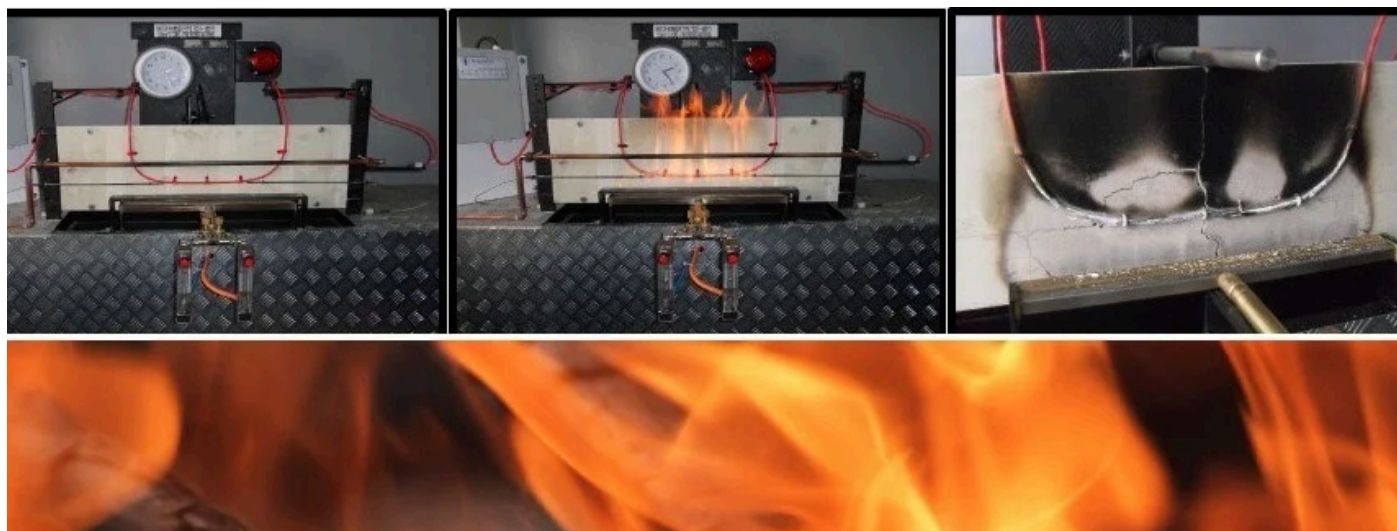
## Notes



**OTHER CONFIGURATIONS CAN BE MANUFACTURED ON REQUEST:**

- 1- Tinned copper conductor.
- 2- Other classes of stranding
- 3- Other temperature / vein insulation material.

*Innovcable reserves the right to change this catalogue without prior notice*



Numero de condutores x diametro do condutor	Diametro Externo	Espessura do isolamento	Carga de incêndio	Peso do Cu	Peso do Cabo
	aprox.	nominal			aprox.
N x mm <sup>2</sup>	mm	mm	kWh/m	kg/km	kg/km
1 x 2 x 0,8	5,5	0,3	0,095	15	40
2 x 2 x 0,8	6	0,3	0,123	25	56
4 x 2 x 0,8	8,7	0,3	0,21	45	96
8 x 2 x 0,8	13,7	0,3	0,52	85	218
12 x 2 x 0,8	14,6	0,3	0,58	126	270
16 x 2 x 0,8	16	0,3	0,69	166	337
20 x 2 x 0,8	18	0,3	0,8	206	403
32 x 2 x 0,8	21,8	0,3	1,02	326	570
40 x 2 x 0,8	25,3	0,3	1,38	407	739
52 x 2 x 0,8	27,6	0,3	1,59	529	906

innovcable@innovcable.com.br  
www.innovcable.com.br

Evolucable Industria de Cabos Especiais  
Av. Minasa, 25 - Galpão B1 - Condomínio Industrial  
Business Park - Sumaré/SP - Cep 13.180-400  
Sumaré/SP (Fábrica): +55 19 3090-3350  
São Paulo/SP: +55 11 3090-6855  
Rio de Janeiro/RJ: +55 21 2042-0087

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