

# MALE/FEMALE CONNECTORS F-FM

## *Polycarbonate insulated terminals - partially reinforced with copper sleeve*

The PC insulated disconnect terminals has been designed, to meet the increasing demands for improved safety and reliability of electrical connectors.

The polycarbonate insulation, is a halogen free, self extinguishing thermoplastic material class V0 (UL 94). The unique funnel shaped entry of the insulation sleeve, guarantees total insertion of the conductor strands into the terminal barrel, creating a secure and reliable, electrical and mechanical connection.



## Technical details:

The connectors are manufactured from brass P-Cu Zn 30 UNI 4895/1962 (corresponding to: Cu Zn 30 DIN 17660/1974 ; Cu Zn 30 NF A51-101/1977) according to IEC 760 norms and are tin plated with a minimum thickness of 3µm.

The reinforcement tube is made of copper SF Cu DIN 1787/1973, F25

Main characteristics of the PC sleeves:



- > DIELECTRIC STRENGTH (KV/mm) : >30
- > VOLUME RESISTIVITY ( $\Omega/cm$ ) :  $>10^{16}$
- > MAX OPERATING TEMPERATURE ( $^{\circ}C$ ) : 115÷130
- > FLAMMABILITY (UL-94) : V0
- > DENSITY ( $g/cm^3$ ) : 1,2
- > WATER ABSORPTION (%) : 0,15
- > BREAKING LOAD ( $N/mm^2$ ) : >65

## Markings:

**cULus** According to UL 310 standard (file 212000)

Certified according to **EN 45545-2:2013** for Hazard Levels HL1 - HL2, requirement set R22 and for Hazard Levels HL1 - HL2 - HL3, requirement set R23

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 According to UL 310 standard ( le 212000)  2011/65/EU

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## *Technical characteristics*


Halogen Free	yes
UL94 class	V0
Min operating temperature range	-20 °C
Max operating temperature range	115 °C
Max operating temperature range (surge)	130 °C
Dimensional form	Male- female terminal
Material (Body)	Electrolytically tin-plated brass
Material (Partially reinforced)	ETP Copper electrolytically tinned
Material (Partially reinforced)	Polycarbonate



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### List of products


#### **RF-FM** Cable type: flexible copper, Minimum section: 0.25 mm<sup>2</sup>, Maximum section: 1.5 mm<sup>2</sup>

Type	Colour	Width	Length	Height of the hooked	Pack qty	Min. pack qty	
RF-FM608	Red	6.35 mm	21 mm	0.8 mm	1,000	100	

#### **RF-FM** Cable type: copper, Minimum section: 0.25 mm<sup>2</sup>, Maximum section: 1.5 mm<sup>2</sup>

Type	Colour	Width	Length	Height of the hooked	Pack qty	Min. pack qty	
RF-FM608	Red	6.35 mm	21 mm	0.8 mm	1,000	100	

#### **BF-FM** Cable type: copper, Minimum section: 1.5 mm<sup>2</sup>, Maximum section: 2.5 mm<sup>2</sup>

Type	Colour	Width	Length	Height of the hooked	Pack qty	Min. pack qty	
BF-FM608	Blue	6.35 mm	21 mm	0.8 mm	1,500	100	

#### **BF-FM** Cable type: flexible copper, Minimum section: 1.5 mm<sup>2</sup>, Maximum section: 2.5 mm<sup>2</sup>

Type	Colour	Width	Length	Height of the hooked	Pack qty	Min. pack qty	
BF-FM608	Blue	6.35 mm	21 mm	0.8 mm	1,500	100	