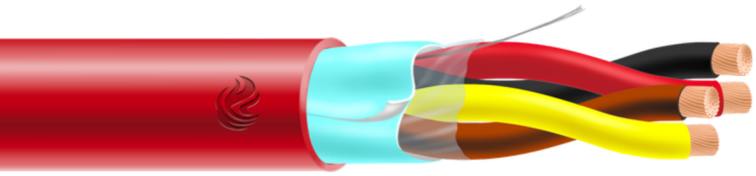
TINFIRE

TINMAR INVER



Reference Number:

0003-FRSR414R 2x2x1.5 mm^2

Standards and Compliance:

UNE EN 50200
UNE EN 211025
UNE EN 50575
UNE EN 13501-6
UNE EN 60332-3
IEC 60332-1-2
IEC 61034-2
IEC 60754-1
IEC 60754-2
IEC 60331 FE 180
RoHS Compliant

TINFIRE FR DATASHEET SOZ1-K (AS+)

PH120' CABLE FE180

Description:
Fire Resistant Cable, generally used for fire detection, public address (PA), and emergency lighting systems. These cables are engineered to maintain circuit integrity and continue operating for a period of 120 minutes under direct fire conditions.

Testing:
120' at 850ºC as per UNE 50200 test **(CEL 1009/19.1)**
120' at 800ºC as per UNE 60331 test **(APPLUS 22/32301471)**

PHYSICAL CHARACTERISTICS:

Conductor: Class 5 Flexible Copper (IEC 60228)
- **Cross Section:** 1.0/1.5/2.5 mm^2

Insulation: FR 120' Ceramifying Silicone Elastomer, Class CR1
- **Color:** Red, Black;Brown, Yellow
- **Core Diameter:** 3.0 mm

Twist Rate: Twisted Pair ≥ 25 twists/m
Shield: Aluminum Mylar Tape
Drain Wire: Stranded Tinned Copper
Jacket: LSZH Polyolefin
- **Color:** Red

Overall Diameter: 7.8/8.3/9.1 mm

ELECTRICAL CHARACTERISTICS:

Capacitance: 86 pF/m
Characteristic Impedance: 90 Ω ±10%
Operating Voltage: 300V/500V
Operating Temperature: -20ºC/+90ºC
Conductor Resistance: 20/14.3/9.2 Ω/Km
Insulation Resistance: MΩ/100mts = 300
Test Voltage: 2000V DC > 1 Min
Velocity of Propagation: < 70%