

Technical Specification

Cable Type: 4x0.8mm PVC Insulated and Jacketed Unshielded Outdoor Fire-Alarm Cable

Western Wire Part Number: BU704G3M

Revision: 7/18 Date: 10 May 2018



Physical Description

Double jacketed fire alarm cable for low frequency applications in outdoor installations. The cable fully conforms to SI 1220 Part 3.

Conductors	Solid annealed bare copper 20 AWG, 0.8 mm nom OD.
Insulation type	FR PVC compound.
Insulation thickness	0.60 mm min. average. 0.4 mm abs. min.
Insulation OD	2.05 mm nom.
Total number of conductors	4
Color code	1. Red. 2. Black. 3. Blue. 4. White.
Conductor arrangement	The 4 conductors are twisted together. Lay length: 50mm max.
Core warp	Polyester tape, providing 100% coverage.
Rip cord	Stranded PA (Nylon) rope laid under the inner jacket. The rip cord can cut both jackets.
Inner Jacket	FR PVC compound.
Jacket thickness	0.50 mm min. average. 0.45 mm abs. min.
Inner Jacket Diameter	6.2 mm nom.
Color	Red RAL 3000.
Outer Jacket	Heavy duty, UV resistant FR PVC compound, rated at -20 to +80C.
Jacket thickness	1.40 mm min. average. 1.30 mm abs. min.
Overall Diameter	9.0 mm nom.
Color	Red RAL 3000.
Surface Marking (Black)	WESTERN WIRE BU704G3M 4x0.8mm OUTDOOR FIRE ALARM CABLE SI 1220-3 FR IEC 60332-1 CE 2011/65/EU (RoHS-2) [Month, Year] [Meter Mark] METER
Surface Marking Intervals	The distance between the end of one text and the beginning of the next text shall be 50cm max.
Notes	Both jackets are easily removable.

Mechanical Properties

Mechanical Properties		
Minimum Bend Radius	20 x D	
Operating temperature	-15 to +70C	
Flame tests	IEC 60332-1	
Total Weight	100 kg/km nom.	
UV test (HD 605) - Outer jacket only	Radiation: 60±22W/m ² @300-400nm wavelength Conditions: 720h @ 63±2C, 55±5% RH Cycle: 18minutes irrigation/102 minutes drying time Requirement: No visible cracks in the jacket	
Insulations and jackets mechanical properties before and after aging of 168 hrs @ 80C	Elongation	150 % min.
	Tensile Strength	1.25 N/mm ² min.

Electrical Properties @ 20C

DC Resistance of conductors	36.0 Ohm/km max.
Voltage rating	60V rms max.
Insulation resistance	100 MOhm·km min @ 500V
Dielectric strength (conductor to conductor)	2.0kV for 1 minute
Velocity of propagation	55% nom. @ 1 kHz

This cable fully conforms to EU Directive 2011/65/EU (RoHS-2)

		PVC Insulated and Jacketed 60V Fire-Alarm Cable	
Cable type	4x20AWG Unshielded Outdoor Cable		
Jacket Type	PVC Double-Jacket		
Jacket Color	Red RAL 3000		
Standard Conformance	SI 1220-3		
WW Part Number	BU704G3M		
WW Batch Number			
Production Date			
Reel Number			
Length	500 meters		
Voltage rating	60V max.		
This cable fully conforms to EU Directive 2011/65/EU (RoHS-2)			
 55701012831			
<i>Passive components. Active people.™</i>			

Label size: 14 cm (w) x 10 cm (h)