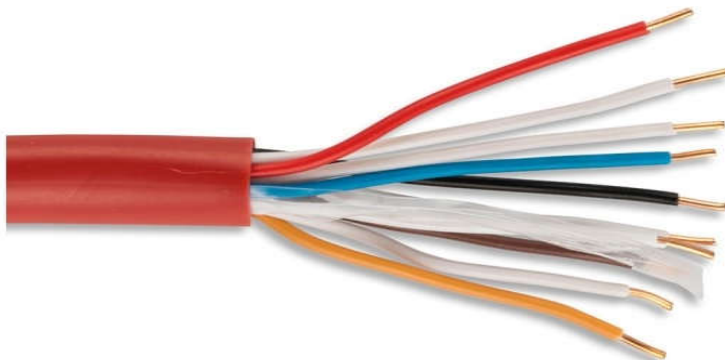


Technical Specification

Cable Type: 5x2x0.8/1.6 PVC Insulated and Jacketed 75V Unshielded Outdoor Control Cable

Western Wire Part Number: BU805G3M

Revision: 04/23 Date: 25 June 2023



Double jacketed control cable for fire alarm systems and low frequency applications. The double jacket renders the cables suitable for outdoor installations.

Physical Description

Conductors	Solid annealed bare copper, 0.8 mm (20 AWG / 0.5 mm ²)
Insulation type	PVC compound, flame retardant, rated at -20 to +80°C
Insulation thickness	0.40 mm nom. 0.35 mm min.
Insulation OD	1.6 mm nom.
Number of conductors	10
Number of pairs	5
Conductor arrangement	The 10 conductors are twisted into 5 pairs
Color code	1. White x Red 2. White x Blue 3. White x Orange 4. White x Brown 5. White x Black.
Core formation	The 5 pairs are cabled together. Core OD: 7.7 mm nom.
Core warp	None
Rip cord	Stranded PA (Nylon) rope laid under the inner jacket. The rip cord can cut both jackets
Inner jacket	PVC compound, flame retardant, rated at -20 to +80°C
Jacket thickness	0.50 mm nom.
Inner cable diameter	8.8 mm nom.
Inner jacket color	Red, RAL 3000
Outer jacket	UV resistance PVC compound, flame retardant, rated at -20 to +80°C
Outer jacket thickness	1.40 mm nom.
Overall Diameter	11.7 mm nom.
Outer jacket color	Red, RAL 3000
Surface marking	WESTERN WIRE BU805G3M [Month, Year] 5x2x0.8 75V OUTDOOR CONTROL CABLE FR IEC 60332-1 CE 2011/65/EU (RoHS-2) [BATCH] [Meter Mark] METER
Notes	Both jackets are easily removable

Mechanical Properties

Minimum Bend Radius	20 x D
Operating temperature	-15 to +70°C
Flame tests	IEC 60332-1
Total Weight	155 kg/km nom.

Electrical Properties @ 20°C

DC Resistance of conductors	36.0 Ω/km max.
Capacitance	100 pF/m nom. @ 1 kHz
Insulation resistance	100 MΩ·km min.
Dielectric strength (conductor to conductor)	800 V rms min. for 1 minute
Voltage rating	75V rms max.

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