

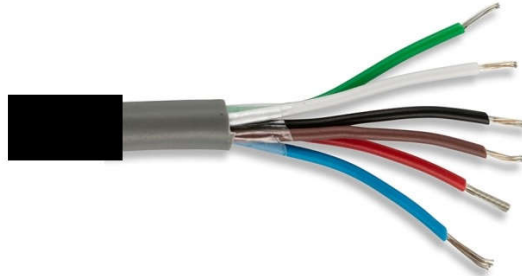


Technical Specificationn

Cable Type: Cable Type: **Nx20# PVC Insulated and Jacketed Unshielded Outdoor Control Cable**

Western Wire Part Number: BU7xxG10

Revision: 04/23 Date: 19 April 2023



Double jacketed control cable for low frequency applications in indoor or outdoor installations.

Basic wires

Conductors	Solid 0.81 mm 20# annealed bare copper
Insulation type	PVC compound, rated at -30 to +80C
Insulation thickness	0.27 mm nom.
Insulation OD	1.35 mm nom.

Color Code

1	Red	5	Black	9	Grey	13	White/Blue
2	Blue	6	White	10	Transparent	14	White/Yellow
3	Yellow	7	Pink	11	Purple	15	White/Green
4	Green	8	Brown	12	White/Red	16	White/Black

In dual-colored wires:

The first color is the base insulation color. The second is the color of the co-extruded longitudinal stripe

Individual Cable Specifications

Cable P/N	No. of Cores	Conductor arrangement	Inner Jacket thickness	Inner Jacket OD.	Outer Jacket thickness	Overall diameter	Total weight
BU702G10	2	Twisted together	0.70 mm nom.	4.0 mm nom.	1.8 mm nom.	7.5 mm nom.	70 kg/km nom.
BU704G10	4	Cabled together concentrically	0.70 mm nom.	4.8 mm nom.	1.8 mm nom.	8.3 mm nom.	90 kg/km nom.
BU706G10	6	Cabled together concentrically	0.70 mm nom.	5.8 mm nom.	1.8 mm nom.	9.1 mm nom.	110 kg/km nom.
BU708G10	8	Cabled together concentrically	0.70 mm nom.	6.0 mm nom.	1.8 mm nom.	9.6 mm nom.	130 kg/km nom.
BU710G10	10	Concentrically (2+Filler+8)	0.70 mm nom.	7.0 mm nom.	1.8 mm nom.	10.6 mm nom.	160 kg/km nom.
BU712G10	12	Concentrically (3+9)	0.70 mm nom.	7.2 mm nom.	1.8 mm nom.	10.8 mm nom.	175 kg/km nom.
BU716G10	16	Concentrically (5+11)	0.70 mm nom.	8.0 mm nom.	1.8 mm nom.	11.6 mm nom.	205 kg/km nom.

Notes: Other constructions are available upon demand. Both jackets are easily removable

Cable Buildup

Core wrap	Polyester tape, providing 100% coverage
Inner Jacket	FR-PVC compound, rated at -20 to +80°C
Color	Gray RAL 7005
Outer Jacket	Heavy duty, UV resistant FR PVC compound, rated at -20 to +80°C
Color	Black, RAL 9005
Surface Marking	WESTERN WIRE BU7xxG10 Nx0.8 OUTDOOR 60V CONTROL CABLE FR IEC 60332-1 CE 2011/65/EU (RoHS-2) [Month, Year] [Batch Number] [SMM] METER
Surface Marking - Example	WESTERN WIRE BU716G10 16x0.8 OUTDOOR 60V CONTROL CABLE FR IEC 60332-1 CE 2011/65/EU (RoHS-2) [Month, Year] [Batch Number] [SMM] METER
Note:	The jackets are easily removable

Mechanical Properties

Minimum Bend Radius	20 x DD
Storage Temperature	-20 to +60°C
Operating temperature	-20 to +80°C
Flame tests	EC 60332-1

Electrical Properties @ 20°C

DC Resistance of conductors	36.0 Ohm/km max.
Insulation resistance	100 MOhm·km min.
Velocity of propagation	55% nom. @ 1 kHz
Dielectric strength	1500 V rms min/ 1 minute
Voltage rating	60 V rms max.

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