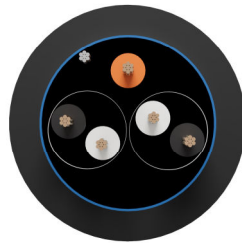
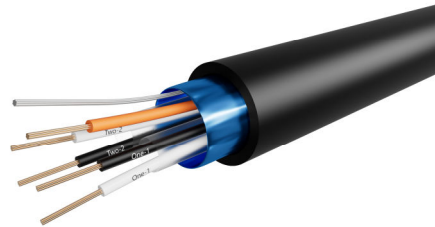


Technical Specification
Cable Type: 2x2x20# PVC Insulated and Jacketed Foil Shielded 60V Control Cable
Western Wire Part Number: DF602G1V
Revision: 03/24 Date: 30 July 2024



Physical Description

Basic Wires	Signal Wires	Communication Wire
Conductors	Stranded 20AWG bare annealed copper 7x0.32 mm nom.	Stranded 22AWG bare annealed copper 7x0.25 mm nom.
Insulation type	Flame retardant PVC compound	Flame retardant PVC compound
Insulation thickness	0.4 mm nom.	0.4 mm nom.
Insulation OD.	1.75 mm nom.	1.55 mm nom.
Total number of conductors	4	1
Total number of twisted pairs	2	0
Color code	Black x White (both pairs)	Orange
Pair lays length	45 mm and 55 mm nom.	
Pair identification	Printed numbers in black ink on the white wire: 1-ONE, 2-TWO	
Core cabling	The 2 pairs are cabled together with the communication wire	
Core warp	Polyester tape, providing 100% coverage	
Drain wire	Stranded 20 AWG annealed tinned copper 7x0.32 mm nom.	
Overall shield	Polyester-aluminum tape, foil face in, providing 100% coverage	
Rip cord	PA stranded rip-cord (14 Kgf) laid under the jacket for easy jacket removal	
Outer jacket	UV resistant FR-PVC compound	
Jacket thickness	1.3 mm nom.	
Overall diameter	8.7 mm nom.	
Jacket color	Black, RAL 9005	
Surface marking	WESTERN WIRE DF602G1V 2x2x20AWG SHIELDED 60V CONTROL CABLE FR IEC 60332-1 CE 2011/65/EU (RoHS-2) [Month, Year] [Batch Number] [Sequential Meter Mark] METER	

Physical Properties

Minimum bend radius	6 x D
Storage temperature	-20 to +60C
Operating temperature	-20 to +90C
Flame test	IEC 60332-1
Total weight	88 kg/km nom.

Electrical Properties @ 20C

DC Resistance of signal wires	35.9 Ohm /km max.
DC Resistance of communication wire	58.0 Ohm /km max.
Insulation Dielectric strength	2000 V rms min/ 1 minute (between conductors)
Jacket dielectric strength	5000 V rms min/ 1 minute (shield to water)
Velocity of propagation	55% nom. @ 1 kHz
Continuous working voltage	60V rms max.

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