

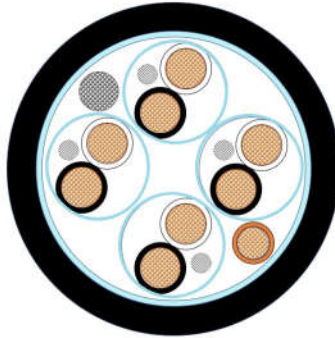


Technical Specification

Cable Type: 4x2x20# PVC Insulated and Jacketed Individual and Overall Foil Shielded 60V Instrumentation Cable

Western Wire Part Number: DD604G1V

Revision: 01/23 Date: 06 March 2023



Cable construction

Basic Wires conductors	Signal wires Stranded bare annealed copper, 7x0.32 mm nom. (20 AWG)	Communication wire Stranded bare annealed copper, 7x0.23 mm nom. (22 AWG)
Insulation type	FR-PVC compound	FR-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	8	1
Total number of twisted pairs	4	N/A
Color code	Black x White (All pairs)	Orange
Pair identification	Printed numbers on the white wire with black ink	
Pair construction	The 2 wires are cabled together in a lay length of 50mm max.	
Individual pair shield	23 mic. polyester-aluminum tape, foil face in, providing 100% coverage, laid in close contact with a tin-plated, 22 AWG stranded (7x0.23 mm) drain-wire	
Core cabling	The 4 pairs are cabled together with the communication wire	
Core wrap	Polyester tape, providing 100% coverage	
Drain wire	Stranded annealed tinned copper, 7x0.32 mm nom. (20 AWG)	
Overall shield	Polyester-aluminum tape, foil face in, providing 100% coverage	
Outer jacket	UV-Resistant FR-PVC compound	
Jacket thickness	1.3 mm nom.	
Overall diameter	10.9 ± 0.5 mm	
Jacket color	Black, RAL 9005	
Surface marking	WESTERN WIRE DD604G1V 4x2x20 AWG SHIELDED 60V INSTRUMENTATION 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 +60°C
Operating temperature	-30 to +90°C
Flame test	IEC 60332-1
Total weight	198 kg/km nom.
Note:	All dimensional & weight values are calculated values and may vary

Electrical Properties @ 20°C

DC Resistance - 16#	35.9 Ω /km max.
DC Resistance - 22#	73.8 Ω /km max.
Continuous working voltage	60V rms 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

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