

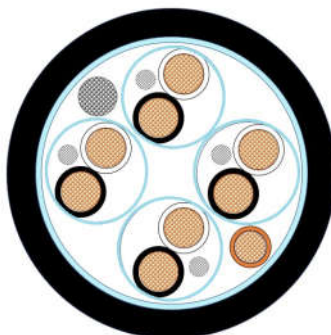


Technical Specification

Cable Type: 4x2x16# PVC Insulated and Jacketed Individual and Overall Foil Shielded 60V Instrumentation Cable

Western Wire Part Number: DD604J1V

Revision: 03/23 Date: 06 March 2023



Cable construction

Basic Wires
conductors

Insulation type
Insulation thickness
Insulation OD

Total number of conductors 8
Total number of twisted pairs 4

Color code

Pair identification

Pair construction

Individual pair shield

Core cabling

Core warp

Drain wire

Overall shield

Outer jacket

Jacket thickness

Overall diameter

Jacket color

Surface marking

Signal wires

Stranded bare annealed copper, 7x0.49 mm
nom. (16 AWG)

FR-PVC compound

0.4 mm nom.

2.3 mm nom.

Black x White (All pairs)

Printed numbers on the white wire with black ink

The 2 wires are cabled together in a lay length of 50mm max. Adjacent pairs are twisted with different lays

23 mic. polyester-aluminum tape, foil face in, providing 100% coverage, laid in close contact with a tin-plated, 20 AWG stranded (7x0.32 mm) drain-wire

The 4 pairs are cabled together with the communication wire

Polyester tape, providing 100% coverage

Stranded annealed tinned copper, 7x0.49 mm nom. (16 AWG)

Polyester-aluminum tape, foil face in, providing 100% coverage

UV-Resistant FR-PVC compound

1.3 mm nom.

12.7 ± 0.5 mm

Black, RAL 9005

WESTERN WIRE DD604J1V 4x2x16 AWG SHIELDED 60V INSTRUMENTATION CABLE FR IEC 60332-1 CE 2011/65/EU (RoHS-2) [Month, Year] [Batch Number] [Sequential Meter Mark] METER

Communication wire

Stranded bare annealed copper, 7x0.23 mm
nom. (22 AWG)

FR-PVC compound

0.4 mm nom.

1.55 mm nom.

1

N/A

Orange

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

258 kg/km nom.

Note:

All dimensional & weight values are calculated values and may vary

Electrical Properties @ 20°C

DC Resistance - 16#

13.9 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)