



Technical Specification

Cable Type: 2x2x16# PVC Insulated and Jacketed Foil Shielded 60V Instrumentation Cable

Western Wire Part Number: DF602J1V

Revision: 02/23 Date: 19 September 2023



Physical Description

The cable is rated at 90C and 60V and can be used for instrument interconnections in process plant for LF control applications.

Basic Wires

Conductors

Insulation type

Insulation thickness

Insulation OD

Total number of conductors 4

Total number of twisted pairs 2

Color code

Pair lays length

Pair identification

Conductor arrangement

Core warp

Drain wire

Overall shield

Outer Jacket

Jacket thickness

Overall Diameter

Color

Surface Marking

Signal Wires

Stranded 16AWG bare annealed copper
7x0.49 mm nom., Class B ASTM B-8

Flame retardant PVC compound, conforming
to BS 6746 Type 5

0.4 mm nom.

2.3 mm nom.

Black x White (both pairs)

45 mm and 55 mm nom.

Printed numbers in black ink on the white wire: 1-ONE, 2-TWO

The 2 pairs are cabled together with the communication wire

Polyester tape, providing 100% coverage

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

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

Heavy-duty Flame-retardant PVC compound, UV resistant, conforming to BS 6746 Type 9

1.3 mm nom.

11.2 mm nom.

Black, RAL 9005

WESTERN WIRE DF602J1V 2x2x16AWG SHIELDED 60V INSTRUMENTATION CABLE FR IEC 60332-1 CE
2011/65/EU (RoHS-2) [Month, Year] [Batch Number] [Sequential Meter Mark] METER

Communications Wire

Stranded 22AWG bare annealed copper 7x0.25
mm nom., Class B ASTM B-8

Flame retardant PVC compound, conforming to
BS 6746 Type 5

0.4 mm nom.

1.55 mm nom.

1

0

Orange

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

145 kg/km nom.

Electrical Properties @ 20C

DC Resistance - 16 AWG

13.9 Ohm/km max.

DC Resistance - 22 AWG

60.0 Ohm/km max.

(orange wire)

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)