

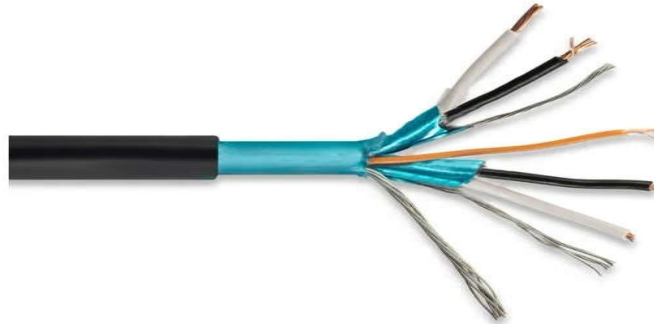


Technical Specification

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

Western Wire Part Number: DD602J1V

Revision: 02/23 Date: 11 Jul 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

Total number of twisted pairs

Color code

Pair identification

Pair construction

Individual pair shield

Core cabling

Core warp

Drain wire

Overall shield

Rip cord

Outer jacket material

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.

4

2

Black x White (both pairs)

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

2 conductors are twisted together with a lay length of 50mm max.

23l 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 two pairs and the communications wire are cabled together

Polyester tape, providing 100% coverage

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

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

PA stranded rip-cord (14 Kgf) laid under the jacket for easy jacket removal

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

1.3 mm nom.

11.1 mm nom.

Black, RAL 9005

WESTERN WIRE DD602J1V 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

8 x D

Storage Temperature

-20 to +60C

Operating temperature

-20 to +90C

Flame test

IEC 60332-1

Total Weight

180 kg/km nom.

Electrical Properties @ 20C

DC Resistance of 16 AWG wires

13.9 Ohm /km max.

DC Resistance of 22 AWG 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 60 V rms max.

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