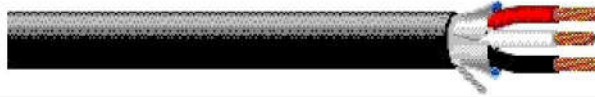


Technical Specification

Cable Type: 1x3x16# PVC Insulated and Jacketed Foil Shielded 60V Instrumentation Cable

Western Wire Part Number: B-DF503J10

Revision: 10/14 Date: 06 Nov 2014



Physical Description

Conductors	Stranded 16AWG bare annealed copper 7x0.49 mm nom., Class B ASTM B-8.
Insulation type	Flame retardant PVC compound, conforming to BS 6746 Type 5.
Insulation thickness	0.4 mm nom.
Insulation OD	2.3 mm nom.
Total number of conductors	3
Color code	Black x White x Red
Conductor arrangement	The 3 conductors are twisted together with a lay length of 50mm max.
Core wrap	Polyester tape, providing 100% coverage.
Drain wire	Stranded 20AWG annealed tinned copper 7x0.32 mm nom.
Overall shield	Polyester-aluminum tape, foil face in, providing 100% coverage.
Outer Jacket	Heavy-duty Flame-retardant PVC compound, UV resistant, conforming to BS 6746 Type 9.
Jacket thickness	0.5 mm nom.
Overall Diameter	6.0 mm nom.
Color	Black, RAL 9005.
Surface Marking	WESTERN WIRE B-DF503J10 1x3x16AWG SHIELDED 60V INSTRUMENTATION CABLE FR IEC 60332-1 CE 2011/65/EU (RoHS-2) [Month, Year] [Batch Number] [SMM] METER

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	70 Kg/Km nom.

Electrical Properties @ 20C

DC Resistance of conductors	13.9 Ohm /Km max.
Continuous working voltage	60 V 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)