



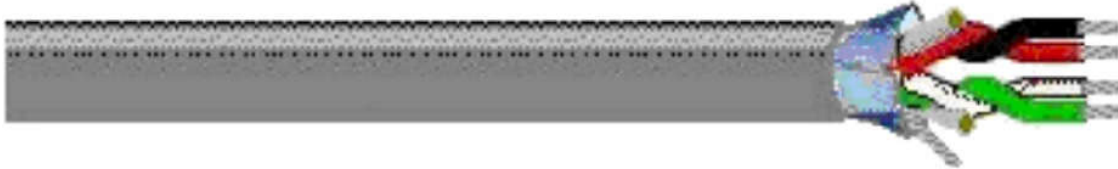
Technical Specification

Cable Type: 2x2x22# PE Insulated PVC Jacketed Shielded TIA/EIA-422-B Cable

Western Wire Part Number: FF202F90

Revision: 12/23

Date: 04 December 2023



Physical Description

Two-pair communication cable, suitable for TIA/EIA-422-B & TIA/EIA-232-F applications. The stranded conductors render the cable suitable for both fixed and portable installations.

Conductors	Stranded 22# annealed tinned copper 7x0.25 mm nom.
Insulation type	Solid LDPE
Insulation thickness	0.32 mm nom.
Insulation OD	1.40 mm nom.
Total number of conductors	4
Total number of twisted pairs	2
Color code	1. Black x Red 2. Green x White
Pairs arrangement	The 2 pairs are cabled together with two PE monofilaments to create a round cross-section
Core warp	Polyester tape, providing 100% coverage
Drain wire	Stranded 24# annealed tinned copper 7x0.20 mm nom.
Overall shield	Polyester-aluminum tape, foil face in, providing 100% coverage
Outer Jacket	Soft PVC compound, rated at -20 to +80C
Jacket thickness	0.70 mm nom.
Overall diameter	6.5 mm nom.
Color	Gray, RAL 7005
Surface marking	WESTERN WIRE FF202F90 2x2x22AWG TIA/EIA-422-B 100 OHM SHIELDED CABLE FR IEC 60332-1 CE 2011/65/EU (RoHS-2) [Month, Year] [Batch Number] [Meter Mark] METER
Notes	The jacket is easily removable

Mechanical Properties

Minimum bend radius	20 x D
Storage temperature	-20 to +60C
Operating temperature	-20 to +80C
Flame tests	IEC 60332-1
Total weight	45 kg/km nom.

Electrical & Transmission Properties @ 20C

Characteristic Impedance	100 $\pm$ 15 Ohm @ 1 MHz
DC Resistance of conductors	59.0 Ohm /km max.
Voltage rating	60 V rms max.
Capacitance	50+/-5 pF/m @ 1 kHz
Velocity of propagation	66% nom. @ 1 kHz

Frequency MHz	Max. Attenuation dB/100m	Min. NEXT dB	Min. PS NEXT dB	Max. Delay Skew ns/100m	Max. Prop Delay nS/100m
0.001	1.0	NS	NS	45.0	570.0
1.00	2.8	60	57	45.0	552.0
10.00	7.5	45	42	45.0	545.4
16.00	9.0	35	33	45.0	543.0
20.00	10.0	30	27	45.0	542.0

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