

RS-422/485 2X2X22 AWG SF/UTP PVC INDUSTRIAL ETHERNET & BUS P/N 9FY9F2V101

INDUSTRY

Applications

Harsh Environments, CAN Bus communication, RS-485, Data transmission, RS-422



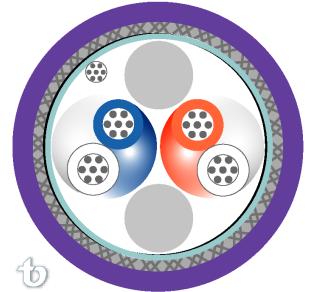
Outer Jacket Material
FR-PVC



Outer diameter
9.4 mm nom.



Weight
70 kg/km



General Construction

The cable contains two 22 AWG pairs, cabled together with filler elements, overall double shielded with an aluminum-foil and tinned-copper braid. The shielded core is jacketed with UV resistant FR-PVC compound.

Design & Materials

Conductor Material	Annealed Tinned Copper
Conductor Size (AWG)	22
Conductor Construction	7x0.25 mm
Insulation Material	Cellular PO
Insulation O.D. (mm nom)	2.13
Color Code	Per IEC 60189-2
Overall Shield Design	100% Coverage
Overall Shield Material	Aluminum/Polyester Foil
Overall Foil Shield	Yes
Overall Braid Shield	Yes
Overall Braid Material	Annealed Tinned Copper
Braid Coverage (% nom)	nom. 85
Overall Drain-wire Material	Annealed Tinned Copper
Overall Drain-Wire Size (AWG)	24
Overall Drain-wire Construction	Stranded
Total Number Of Conductors	4
Outer Jacket Thickness (mm nom)	0.9
Outer Jacket Color	Black
Marking	Teldor Standard Per request

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Performance

Impedance (Ω)	120										
Max. DC Resistance ($\Omega/\text{km}@20^{\circ}\text{C}$)	59.0										
Attenuation	<table> <tr> <th>Frequency [KHz]</th><th>Attenuation dB/100m</th></tr> <tr> <td>100</td><td>0.6</td></tr> <tr> <td>200</td><td>0.9</td></tr> <tr> <td>500</td><td>1.4</td></tr> <tr> <td>1000</td><td>1.9</td></tr> </table>	Frequency [KHz]	Attenuation dB/100m	100	0.6	200	0.9	500	1.4	1000	1.9
Frequency [KHz]	Attenuation dB/100m										
100	0.6										
200	0.9										
500	1.4										
1000	1.9										
Capacitance (pF/m)	45 (pair)										
Velocity of Propagation (% nom)	78										
Dielectric Strength (V/minute)	700										
Dielectric Strength to Shield (V/minute)	700										
Voltage Rating (V)	300V Not as a low frequency main power supply										
Min. Bend Radius (mm)	40										
Min. Operating Temperature ($^{\circ}\text{C}$)	-35										
Max. Operating Temperature ($^{\circ}\text{C}$)	+70										
UV Resistance	Yes										

Standards

Flammability Rating
IEC 60332-1
UL 1581 VW-1
UL CMX

Applicable Standards
IEEE 802.3af (PoE)
IEEE 802.3at (PoE+)
RoHS 3 2015/863/EU
RoHS 3 2015/863/EU



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