

RS-485 2x2x22/7 AWG SF/UTP Thin SBA LSZH-SHF2 INDUSTRIAL ETHERNET & BUS P/N 7MG0232101

INDUSTRY

Applications

High Noise Environments, Industrial communication, RS-485, RS-422, RS-232, Maritime Environment, Offshore installations, Outdoor and direct burial installations



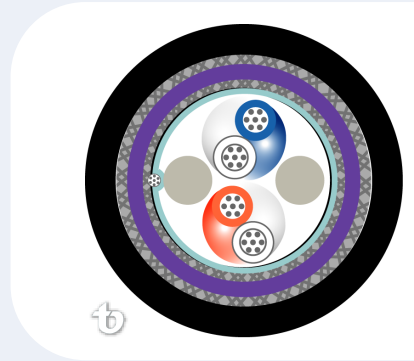
Outer Jacket Material
XL-HFFR



Outer diameter
12.0 mm nom.



Weight
215 kg/km



General Construction

Two twisted pairs are cabled together, overall aluminum-foil and braid shielded and inner jacketed. A Steel Braid Armor (SBA) followed by an outer jacket.

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)	1.62
Conductor Color Code	Blue x White, Orange x White
Drain-Wire 1 Construction	Stranded
Overall Shield Design	Aluminum Foil + Braid
Overall Foil Shield	Yes
Overall Braid Shield	Yes
Overall Braid Material	Annealed Tinned Copper
Braid Coverage (% nom)	85
Overall Drain-wire Material	Annealed Tinned Copper
Overall Drain-Wire Size (AWG)	24
Overall Drain-wire Construction	Stranded
Inner Jacket Material	FR-LSZH
Inner Jacket Diameter (mm nom)	8.0
Inner Jacket Color	Purple

RS-485 2x2x22/7 AWG SF/UTP Thin SBA LSZH-SHF2
P/N 7MG0232101

INDUSTRY

Armoring	Braided Galvanized Steel
Total Number Of Conductors	4
Outer Diameter (mm nom)	12.0
Outer Jacket Color	Black
Marking	Teldor Standard Per request
Outer Jacket Material	XL-HFFR

Performance

Impedance (Ω)	120
Transfer Impedance Grade	Grade 1
Coupling Attenuation	Type I
Max. DC Resistance (Ω/km@20°C)	57
Max. Resistance Unbalance (%)	2
Dielectric Strength (V/minute)	700
Dielectric Strength to Shield (V/minute)	700
Voltage Rating (V)	300 (*)
Min. Bend Radius (mm)	11xD
Min. Operating Temperature (°C)	-30
Max. Operating Temperature (°C)	+75
UV Resistance	Yes
Rodent Resistance	Yes

Standards

Flammability Rating
IEC 60332-1
IEC 60332-3
IEC 60332-3-22
IEC 60754-1/2
IEC 61034-1/2
UL 1581 VW-1

Applicable Standards
DNV certified
ABS certified
LLOYDS certified
RMRS certified
IEC 60092-350
IEC 60092-360
IEC 60811-2-1
IEC 61158-2
TIA-485-A
ANSI TIA/EIA-422
RoHS 3 2015/863/EU



Electrical Properties

Transmission properties

Frequency (MHz)	Attenuation (dB/100m)	NEXT Attenuation (dB)
1	1.7	47
10	5.0	35

(*) Cable voltage rate is 300 V, however the cable is not intended to be used as power transmission cable.

Teldor Cables & Systems Ltd. (“Teldor”) reserves the right to make changes to the products described in this catalog without prior notice. Teldor does not assume any liability which may occur due to the use of the products described herein. Drawings may not be to scale and are provided for general and informational purposes only. The information contained in this catalog is the proprietary property of Teldor, and may not be used, reproduced or disclosed to others, in whole or in part, without the written authorization of Teldor.

Version 1.1 | Last update: 2020-02-25