



**Product:** [BE43910](#)

RailTuff SPE 30mGb 24AWG STR SF/UTP E-Beam XL-LSZH, AWM STYLE 22303, EN 45545-2 Hazard Level HL1-HL3

### Product Description

RailTuff SPE 30mGb 24AWG STR SF/UTP E-Beam XL-LSZH, AWM STYLE 22303, EN 45545-2 Hazard Level HL1-HL3

### Technical Specifications

#### Product Overview

Suitable Applications:	1 single pair Ethernet up to 600 MHz accord. IEEE 802.3bp (1000BASE-T1)
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#### Construction Details

##### Conductor

Size	Stranding	Material	No. of Pairs
24 AWG	7x0.20 mm	TC - Tinned Copper	1

##### Insulation

Material	Nom. Insulation Diameter	Color Code
PP - Polypropylene	1.65 mm (0.0650 in)	White, Blue

##### Outer Shield

Shield Type	Material
Tape	Bi-Laminate (Alum+Poly)
Braid	Tinned Copper (TC)

##### Outer Jacket

Material	Nom. Diameter
XLPE - Cross Linked Polyethylene	4.80 mm (0.189 in)

#### Electrical Characteristics

##### Electricals

Max. Conductor DCR	Max. Capacitance Unbalance	Nom. Characteristic Impedance
94.2 Ohm/km (28.7 Ohm/1000ft)	160 pF/100m	100 Ohm

##### Delay

Frequency	Max. Delay
4 MHz	552 ns/100m

##### High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation) [dB/100m]	Min. RL (Return Loss) [dB]	Min. TCL [dB]	Min. ELTCTL [dB]
1	3.0	20	40	40
10	8.7	25	35	20
20	12.3	25	30.5	13.9
600	70.6	15.6	8.3	5

#### Mechanical Characteristics

##### Temperature

Operating
-40°C to + 80°C

## Standards and Compliance

Flammability / Reaction to Fire:	FT 2, IEC 60332-1-2, IEC 60332-3-25, IEC 60332-3-22, EN 50305
Data Category:	SPE 1000 Mbps
CENELEC Compliance:	EN 45545-2
European Halogen Free Standards:	IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 10 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3

## History

Update and Revision:	Revision Number: 0.101 Revision Date: 11-29-2024
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## Part Numbers

### Variants

Item #	Color	Putup Type	Length	EAN
BE43910-A500	Black	Reel	500 m	8719605197917

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