

Product: BE46830 ☑

Marine Type SPE 40mGb 22AWG STR SF/UTP SHF1, UV resistant, Outdoor



# **Product Description**

Marine Type SPE 40mGb 22AWG STR SF/UTP SHF1, UV resistant, Outdoor

# **Technical Specifications**

## **Product Overview**

	Suitable Applications:	1 single pair Ethernet up to 600 MHz
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### **Construction Details**

#### Conductor

Size	Stranding	Material	No. of Pairs
22 AWG	7x0.25 mm	TC - Tinned Copper	1

#### Insulation

Material	Nom. Insulation Diameter	Color Code
XLP, XLPO, XLPE	2.10 mm (0.0827 in)	Nature, Nature & Blue

### Outer Shield

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

# Outer Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (SHF1)	6.20 mm (0.244 in)

## **Electrical Characteristics**

#### Electricals

Max. Conductor DCR	Max. Capacitance Unbalance	Nom. Characteristic Impedance
59.4 Ohm/km (18.1 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** 

Grade 1

Transfer Impedance Class:

#### Temperature



#### **Standards and Compliance**

Flammability / Reaction to Fire:	FT 2, IEC 60332-1-2, IEC 60332-3-22
AWM Compliance:	AWM 21307
Data Category:	SPE 1000 Mbps
European Halogen Free Standards:	IEC 62821-1 Halogen Free Compliance = Yes, IEC 60754-1 - Halogen Amount = 0.5 %, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 10 μS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3
Other Standard Compliance(s):	IEC 61156-12 NP, UL 758, IEC 60092-376

### History

Update and Revision:	Revision Number: 0.91 Revision Date: 11-29-2024

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