

Product: 74030E

DataTuff Ind SPE 40mGb 26AWG SO SF/UTP PVC

Product Description

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Technical Specifications

Product Overview

Suitable Applications:	Tight space cabinet, machine building, 1 single pair Ethernet up to 600 MHz

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
26	Solid	BC - Bare Copper	1

Conductor Count:	2

Insulation

Material	Nominal Diameter
PP - Polypropylene	1.3 mm

Color Chart

Color
Natural & Natural/Blue

Outer Shield Material

Type	Material	Coverage [%]
Tape	Bi-Laminate (Alum+Poly)	100%
Braid	Tinned Copper (TC)	80%

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	4.10 mm

Construction and Dimensions

Min Elongation at Breakof Conductors:	8 %
Min Elongation at Breakof Insulation:	100 %
Min Elongation at Breakof Jacket:	100 MPa
Min Tensile Strength of Jacket:	10.3 MPa

Electrical Characteristics

Conductor DCR

Max. Conductor DCR	Max DCR Unbalanced Between Pairs [%]
145 Ohm/km at 20°C	2 %

Capacitance

Max. Capacitance Unbalance

1,600 pF/km

Dielectric Strength:	2 kVac/1 min
Insulation Resistance:	5000 MOhm*km
Insulation Resistance (Cond to Cond):	5000 MOhm*km
Insulation Resistance (Cond to Screen):	5000 MOhm*km

Impedance

Nominal Characteristic Impedance
100 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	3.1 dB/100m
4 MHz	5.6 dB/100m
10 MHz	8.7 dB/100m
20 MHz	12.3 dB/100m
30 MHz	15.1 dB/100m
100 MHz	27.8 dB/100m
600 MHz	70.7 dB/100m

High Freq

Frequency [MHz]	Min. RL (Return Loss) [dB]	Min. TCL [dB]	Min. ELTCTL [dB]
1 MHz	20 dB	40 dB	40 dB
4 MHz	23 dB	40 dB	28 dB
10 MHz	25 dB	35 dB	20 dB
20 MHz	25 dB	30.5 dB	14 dB
30 MHz	23.5 dB	27.8 dB	10.5 dB
100 MHz	19 dB	20 dB	5 dB
600 MHz	15.6 dB	8.3 dB	5 dB
1000 MHz			

Voltage

Non-UL Voltage Rating
300 V

Temperature Range

Operating Temp Range:	-20°C To +80°C

Mechanical Characteristics

Max Dielectric Shrinkage:	5 %
Dielectric Shrinkage Description:	Shrinkage of Insualtion (100+/2°CX1hr)/150mm
Cold Bend Test:	No Crack
Hygroscopicity:	Weight increasing not exceed 1% (for 3hrs)
Wicking:	The filter paper shall not wet (for 6 hrs)
IRM 902 Mineral Oil Resistance Test:	At 70C° x 4hr- Tensile Strength: ≥ 60% of Original Elongation at break:≥ 60% of Original
UV Resistance 720h per UL1581:	(300h) Tensile Strength (Mpa) - 85% of original, Elongation at break (%) - 85% of original

Standards

UL AWM Style Compliance:	AWM 2095
CSA AWM Compliance:	AWM I A/B
ISO/IEC Compliance:	IEC 61156-12, UL 758

Flammability, LS0H, Toxicity Testing

C(UL) Flammability:	FT2
IEC Flammability:	IEC 60332-1

Part Number

Variants

Item #	Color	Put-Up Type	Length
74030E 0101000	Black	Reel	1,000 ft

74030E-C500	Blue, Light	Reel	500 m
74030E 0061000	Blue, Light	Reel	1,000 ft
74030E-C1000	Blue, Light	Reel	1,000 m

History

Update and Revision:	Revision Number: 0.48 Revision Date: 07-12-2021

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