



Product: [74004PU](#)

DataTuff® 7, 4PR #23 Sol BC, PO ins, S/FTP, PUR HF jkt, AWM 20549

### Product Description

DataTuff® 7, 4 Pair AWG 23 Bare Copper - Solid, Polyethylene insulation, S/FTP - Overall Braid / Individual Foil shielding, PUR Halogen Free jacket , AWM 20549

### Technical Specifications

#### Product Overview

Suitable Applications:	Cat7, harsh environment, IIoT, factory or process automation, video, audio, data communication, etc.
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#### Construction Details

##### Conductor

Size	Stranding	Material	No. of Pairs	No. of Elements
23 AWG	Solid	BC - Bare Copper	4	8

##### Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene (Foam)	1.45 mm (0.0571 in)	White & Blue, White & Orange, White & Green, White & Brown

##### Cable Core

Description
4 pairs twisted to cable core

##### Inner Shield

Element	Shield Type	Material	Coverage
Individual Shielded Pair	Tape	Bi-Laminate (Alum+Poly)	100%

Table Notes:	Aluminum outside
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##### Outer Shield

Shield Type	Material	Coverage
Braid	Tinned Copper (TC)	65%

##### Outer Jacket

Material	Nom. Diameter
PUR - Polyurethane (Halogen Free)	8 mm (0.31 in)

Table Notes:	Flame Retardant Sheath
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Overall Cable Diameter (Nominal):	8 mm (0.31 in)
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#### Electrical Characteristics

##### Electricals

Max. Conductor DCR	Max. Mutual Capacitance	Max. Capacitance Unbalance	Nom. Characteristic Impedance
75 Ohm/km	56 pF/m (17 pF/ft)	160 pF/100m	100 Ohm

##### Delay

Max. Delay Skew	Nom. Velocity of Prop.
40 ns/100m	60%

## High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. ACR [dB]	Min. PSACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]
1	2 dB/100m	78	75	74	71	78	75	20
4	3.7 dB/100m	78	75	74.3	71.3	78	75	23
10	5.9 dB/100m	78	75	72.1	69.1	75.3	72.3	25
16	7.4 dB/100m	78	75	70.6	67.6	71.2	68.2	25
31.2	10.4 dB/100m	78	75	67.6	64.6	65.4	62.4	23.6
62.5	14.9 dB/100m	75.5	72.5	60.6	57.6	59.4	56.4	21.5
100	19 dB/100m	72.4	69.4	53.4	50.4	55.3	52.3	20.1
125	21.4 dB/100m	70.9	67.9	49.6	46.6	53.4	50.4	19.4
200	27.5 dB/100m	67.9	64.9	40.4	37.4	49.3	46.3	16
250	31 dB/100m	66.4	63.4	35.5	32.5	47.3	44.3	17.3
300	34.2 dB/100m	65.2	62.2	31.1	28.1	45.8	42.8	17.3
600	50.1 dB/100m	60.7	57.7	10.6	7.6	39.7	36.7	17.3
1000	66.9 dB/100m	57.4	54.4			35.3	32.3	15.1

Table Notes: Limits below 4 MHz are for information only.; Values at 1000 MHz are for information only. Reference standard: IEC 61156-5

## Transfer Impedance

Frequency	Max. Transfer Impedance
1 MHz	Max. 5 mOhm/m
10 MHz	Max. 5 mOhm/m
30 MHz	Max. 30 mOhm/m
100 MHz	100 mOhm/m

Transfer Impedance Class: Grade 1

Screening Class: Type Ib

Table Notes: Coupling Attenuation

## Voltage

UL Voltage Rating	Voltage Rating
30 V RMS	30 V AC

## Mechanical Characteristics

### Temperature

Operating	Installation	Storage
-40°C to +70°C	-5°C To +50°C	-40°C To +80°C

### Bend Radius

Stationary Min.	Installation Min.
40 mm (1.6 in)	80 mm

Max. Pull Tension: 80 N (18 lbf)

## Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Sunlight Resistance, Oil Resistance
AWM Compliance:	AWM 21292
IEEE Compliance:	PoE: IEEE 802.3bt Type 1, Type 2, Type 3, Type 4
Data Category:	Category 7
TIA/EIA Compliance:	ANSI/TIA 568.2-D
ISO/IEC Compliance:	ISO/IEC 11801-1, IEC 61034-2 - Smoke Density Min Transmittance = 60%
CENELEC Compliance:	EN 50173-1, Segregation class according EN50174-2 = c
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
European Directive Compliance:	EU CE Mark

## History

Update and Revision: Revision Number: 0.229 Revision Date: 01-19-2024

## Part Numbers

### Variants

Item #	Color	Putup Type	Length	EAN
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74004PU.01B100	Black	Flat Box	100 m	8719605013248
74004PU.01305	Black	Reel	305 m	8719605013224
74004PU.01500	Black	Reel	500 m	8719605013231

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