



Product: [7967A](#)

Datatuff Ind. Cat. 6 OSP Cable, 4 Pair, F/UTP, Gel Filled, 23AWG. Oil Res II

Product Description

Datatuff Industrial Category 6 Cable (350MHz), OSP Rated, 4-Pair, 23 AWG Solid Bare Copper Conductors, F/UTP, Gel-Filled, Polyethylene Jacket

Technical Specifications

Product Overview

Suitable Applications:	OSP-Outside, Premise Horizontal Cable, Ethernet 1000BASE-T, Ethernet 100BASE-TX, Ethernet 10BASE-T, PoE++, PoE+, PoE, Noisy Environments
Patent:	This product has one or more applicable patents. More information on patents can be found at https://www.belden.com/patents .

Construction Details

Conductor

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

Insulation

Material	Color Code
PO - Polyolefin	White & Blue, White & Orange, White & Green, White & Brown

Inner Jacket

Material	Nom. Diameter
PE - Polyethylene	0.26 in (6.6 mm)

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	26 AWG (7x34) TC

Waterblocking: Gel Filled

Outer Jacket

Nom. Diameter	Ripcord
0.360 in (9.14 mm)	Yes

Overall Cable Diameter (Nominal): 0.360 in (9.14 mm)

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Capacitance Unbalance
93.8 Ohm/km (28.6 Ohm/1000ft)	160 pF/100m

Delay

Frequency	Max. Delay Skew	Nom. Velocity of Prop.
100 MHz	45 ns/100m	65%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation) [dB/100m]	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. PSACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Max./Min. Input Impedance (unFitted) [Ohm]	Max./Min. Fitted Impedance [Ohm]	Min. TCL [dB]	Min. ELTCTL [dB]
1	2.0	74.3	72.3	70.3	67.8	64.8	20.0	100 ± 15	100 ± 15	40.0	35.0
4	3.8	65.3	63.3	59.5	55.7	52.7	23.0	100 ± 15	100 ± 15	40.0	23.0
8	5.3	60.8	58.8	53.4	49.7	46.7	24.5	100 ± 15	100 ± 15	40.0	16.9
10	6.0	59.3	57.3	51.4	47.8	44.8	25.0	100 ± 15	100 ± 15	40.0	15.0
16	7.6	56.3	54.3	46.7	43.7	40.7	25.0	100 ± 15	100 ± 15	38.0	10.9
20	8.5	54.8	52.8	44.3	41.7	38.7	25.0	100 ± 15	100 ± 15	37.0	9.0
25	9.5	53.3	51.3	41.8	39.8	36.8	24.3	100 ± 15	100 ± 15	36.0	7.0
31.25	10.7	51.9	49.9	39.2	37.9	34.9	23.6	100 ± 15	100 ± 15	35.1	5.1
62.5	15.4	47.4	45.4	30.0	31.8	28.8	21.5	100 ± 15	100 ± 15	32.0	
100	19.8	44.3	42.3	22.5	27.8	24.8	20.1	100 ± 15	100 ± 15	30.0	
155	25.2	41.5	39.5	14.3	23.9	20.9	18.8	100 ± 22	100 ± 15	28.1	
200	29.0	39.8	37.8	8.8	21.7	18.7	18.0	100 ± 22	100 ± 15	27.0	
250	32.8	38.3	36.3	3.5	19.8	16.8	17.3	100 ± 32	100 ± 15	26.0	

Voltage

Voltage Rating
300 V

Mechanical Characteristics

Temperature

Operating	Installation	Storage
-40°C To +75°C	-40°C To +60°C	-40°C To +75°C

Bend Radius

Stationary Min.	Installation Min.
3.0 in (76 mm)	3.75 in (95.3 mm)

Max. Pull Tension:	25 lbs (11 kg)
Bulk Cable Weight:	49 lbs/1000ft (73 kg/km)

Standards and Compliance

Environmental Suitability:	Outdoor, Outdoor, Sunlight Resistance, UV Resistance, Oil Resistance, Aerial - When supported by messenger wire, Burial - Engineered burial only
CPR Compliance:	CPR Euroclass: Fca; CPR UKCA Class: Fca
IEEE Compliance:	IEEE 802.3bt Type 1, Type 2, Type 3, Type 4
Data Category:	Category 6
TIA/EIA Compliance:	ANSI/TIA-568.2-E Category 6
ISO/IEC Compliance:	11801 ed 2.2 (2011) Class E
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE), REACH: 2017-07-10
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Product Notes

Notes:	Electrical values are expected performance based on cable testing and representative performance within a typical Belden system. Cable not guaranteed to meet TIA 568.2 specification for delay above lengths of 90m. Print Includes Descending Footage/Meter Markings from Max. Put-Up Length to 0. Not Suitable for Direct Burial. Belden recommends using an entrance demarcation point when transitioning inside buildings with gel-filled OSP cables due to the cable design containing gel specific for wet outdoor environments. The suggested transition point is the REVConnect core coupler, part number RVACPUBK-S1.
--------	---

History

Update and Revision:	Revision Number: 0.10 Revision Date: 02-13-2025
----------------------	---

© 2025 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

