Twisted Pair Outdoor Patch Cable - Category 6 Class E - S/FTP



- ✔ UV-, acid-, alkali-, corrosion resistant
- ✔ black colored LDPE outer sheath
- ✔ with drain wire
- ✔ Kink prot., strain relief, latch prot.

Abstract

CAT 6, Class E, S/FTP, Twisted Pair Outdoor Patch Cable, Cu, LDPE, AWG 27/7, various lengths available

Features

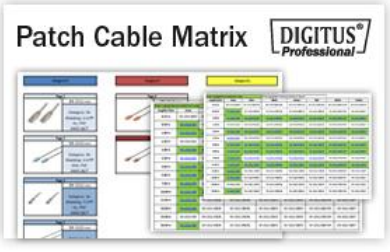
- 2x RJ45 (8P8PC) connectors
- Boots with kink protection, strain relief and latch protection
- Length marking on boot
- Conductor: Cu (Copper)
- Shielding: S/FTP (complete braid shielding, pairs foil shielded); incl. drain wire
- Structure: 4x 2 AWG 27/7, twisted pair
- Sheath: LD-PE (Polyethylene)
- PoE+ compatible
- UV resistant, acid- & alkali resistant, corrosion resistant

Product Overview

The DIGITUS® Category 6 Class E patch cables are manufactured and tested to the ISO/IEC 11801 and DIN EN 50173 Category 6 specifications. They will guarantee the installed cabling system is compliant with the ISO & EN channel specification requirements and will provide optimum performance levels of DIGITUS® Category 6 cabling. The performance is tested up to 250 MHz inclusive performance characteristics such as near end cross talk (“NEXT”).
DIGITUS® patch cables are designed and produced to fulfill the highest requirements of various application areas in full volume.
Each cable is fitted with a molded boot which comes with kink protection and strain relief.
Furthermore the boot is equipped with a latch protection that prevents the latching lever against breaking.
With its UV resistant PE sheath, this outdoor patch cable will ensure a secure installation in areas with a lot of temperature fluctuation and sun expose. Furthermore the drain wire will work as a lightning arrester.

Patch Cable Matrix and Configuration

Patch cables can be wide-ranging. Therefore we prepared a complete overview of our range, which guides you to the cable you require.
One E-Mail or one call will be enough and we will send you the latest version as a PDF file.
You can also check our Patch Cable Configuration tool on our website www.digitus-professional.com



Performance- and Specification Overview

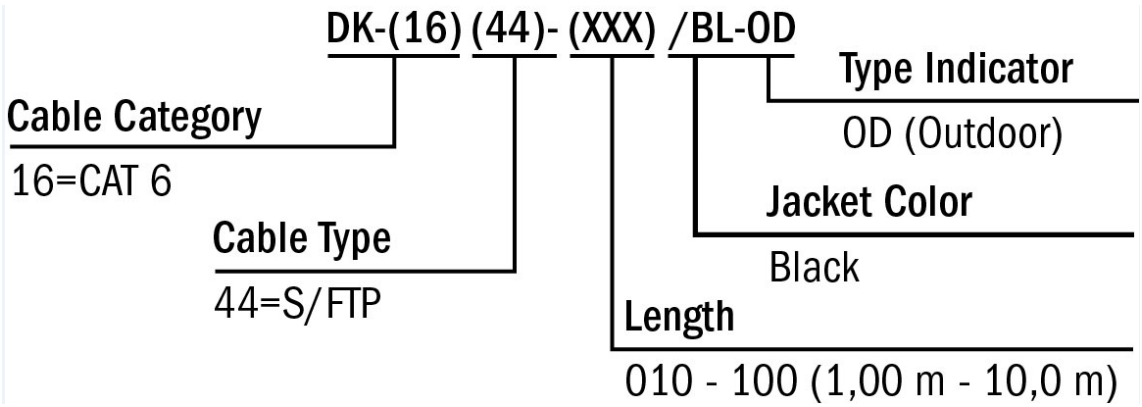
Conductor	Stranded AWG 27/7 bare copper, 0.127 ± 0.005 mm
Insulations	FO-PE (Foamed Polyethylene)
Outer sheath	LD-PE (Low Density Polyethylene)
Overall diameter	5.4 mm ± 0.30 mm
Bending radius	15x OD
RJ45 connector	3 µ nominal gold flash over 60 µ nickel undercoat contact pins
Color code	Orange x White, Green x White, Blue x White, Brown x White
Wiring standard	EIA/TIA 568B
Pin assignment	1:1
Durability	750 insertion cycles
Contact resistance	30 mΩ maximum
Resistance unbalance	3% maximum
Dielectric strength	2500 VDC for 3 seconds
Uninsulated resistance	150 MΩ/km minimum
Operating temperature	-20 °C up to +60 °
NVP	76%
Typical applications	IEEE 802.3: 10BASE-T; 100BASE-T; 1000BASE-T
Norms	ISO/IEC 11801-1; EN-50173; ANSI/TIA 568-C; EN 60603-7-5
Marking	Brand name and cable information by label and printing

Transmission Properties

Freq.	Insertion Loss	NEXT	RL	ACR-N	ACR-F	PS NEXT	PS ACR-N	PS ACRF
MHz	**dB**	**dB**	**dB**	**dB**	**dB**	**dB**	**dB**	**dB**
1.00	4.00	65.00	19.00	61.00	63.30	62.00	58.00	60.30
10.00	6.60	56.60	19.00	50.00	43.30	54.00	47.40	40.30
20.00	9.30	51.60	17.50	42.30	37.20	49.00	39.70	34.20
25.00	10.50	50.00	17.00	39.60	35.30	47.30	36.90	32.30
62.50	16.90	43.40	14.00	26.50	27.30	40.60	23.70	24.30
100.00	21.70	39.90	12.00	18.20	23.30	37.10	15.40	20.30
200.00	31.70	34.80	9.00	3.10	17.20	31.90	0.10	14.20
250.00	35.90	33.10	8.00	-2.80	15.30	30.20	-5.80	12.30

The results of the chart above are typical for Category 6, Class E patch cables 2 m, 5 m up to 10 m length

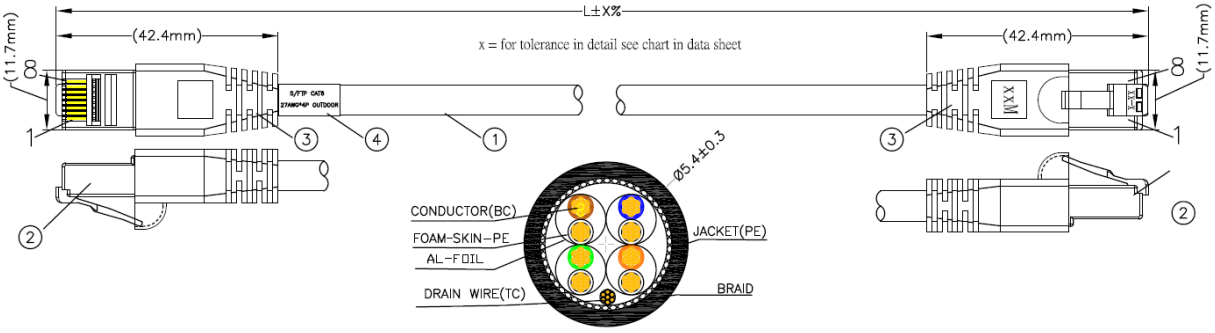
Product Number Information



Length Tolerances

Length (m)	Tolerance (mm)		Length (m)	Tolerance (mm)
0.15	+20/-6		8	+/-155
0.25	+20/-6		10	+/-200
0.5	+20/-10		12	+/-250
0.75	+20/-13		13	+/-270
1	+/-20		15	+/-310
1.5	+/-30		20	+/-400
2	+/-40		25	+/-500
2.5	+/-50		30	+/-630
3	+/-60		40	+/-840
4	+/-90		50	+/-1000
5	+/-110		70	+/-1300
6	+/-120		75	+/-1500
7	+/-140		100	+/-1800
7.5	+/-150		* The cable length is measured from plug A to plug B	

Technical Drawing



MATERIAL LIST:

NO.	PARTS NAME	SPECIFICATION DESCRIPTION
①	CABLE	S/FTP [27AWG(BC 7/0.127±0.005)*1PR+A]*4+D(TC)+B(AL-MG) +LD-PE OD:5.4±0.3mm COLOR:BLACK
②	RJ45 CONNECTOR	RJ45,8P8C,TWO FORK GOLD PLATED CONTACTS WITH METAL HOUSING
③	MOLDING PVC	MOLDING PVC 45P COLOR:BLACK
④	LABEL	SPECIFICATION:55*40mm

