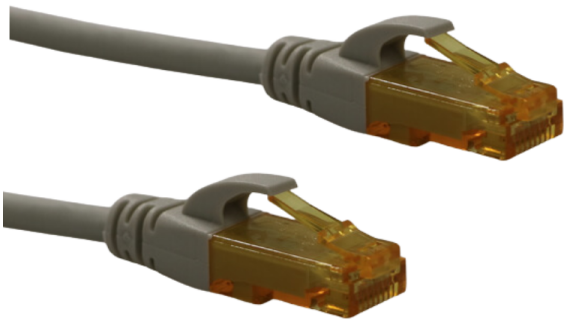
RoCat

Datasheet

RoCat Cat.6 U/UTP RJ45 patch cords TPE/LSZH



Product:

CAT 6 Class E, U/UTP, Twisted Pair Patch Cord, Cu, TPE-LSZH, AWG 26/7, various lengths and colors available

Features

- 2x RJ45 (8P8C) connectors
- Boots with kink protection, strain relief and latch protection
- Length marking on boot
- Conductor: Cu (Copper)
- Shielding: U/UTP (unshielded)
- Structure: 4x 2 AWG 26/7, twisted pair; incl. plastic cross separator
- Jacket: TPE-LSZH
- PoE+ ready

Product Overview

The RoCat® Category 6 Class E patch cords 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 RoCat® Category 6 cabling. The performance is tested up to 250 MHz inclusive performance characteristics such as near end cross talk (“NEXT”).

RoCat® patch cords 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.

You can easily identify the Category 6, because of the transparent orange colored connector. You can also take a look at the complete RoCat Cat.6 assortment in our webshop. To go there, scan the QR code below:

Morsebaan 4, 3439 NA, Nieuwegein (NL)

Tel: + 31(0)30 289716

Website: www.romal.com

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Performance- and Specification Overview

Conductor	Stranded AWG 26/7 bare copper, 0.145 ± 0.005 mm
Insulations	HD-PE (High Density Polyethylene)
Outer sheath	TPE-LSZH
Overall diameter	4.8 mm ± 0.30 mm
Bending radius	8x OD
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	69%
Flame retardancy	IEC 60332-1
Smoke emission	IEC 61034
Typical applications	IEEE 802.3: 10BASE-T; 100BASE-T; 1000BASE-T
Norms	ISO/IEC 11801-1; EN-50173; ANSI/TIA 568-C; EN 60603-7-4
Colors	Various colors available on request
Marking	Brand name, cable length and cable information

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 in the table above are typical for Category 6, Class E patch cords 2 m, 5 m up to 10 m in length

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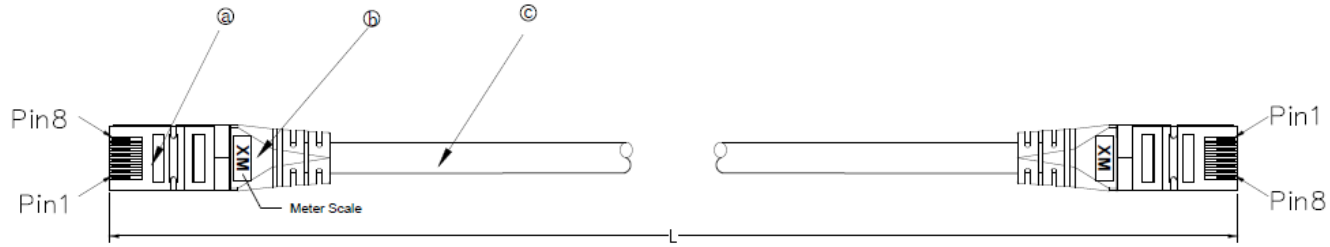
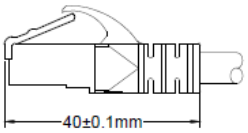
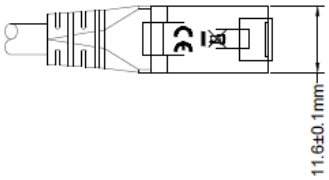
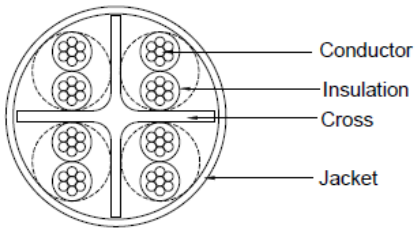
Technical Drawing









Wiring Diagram

P1	P2	
1	1	white
2	2	orange
3	3	white
6	6	green
4	4	blue
5	5	white
7	7	white
8	8	brown

TIA-T568B

Remarks:
1.100% open circuit short circuit&displacement test
2.Fluke channel link test :
L≤7m：Link 90m+0.5M+L L≥10m Fluek channel test
TEST LIMIT:ISO11801 Channel Class E
3.ROHS 2.0 AND REACH COMPLIANT
4.LSZH: Conform to IEC 60332-1

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