

RoCat

Datasheet

RoCat Cat.6 U/UTP RJ45 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

- 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 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 RoCat® Category 6 cabling. The performance is tested up to 250 MHz inclusive performance characteristics such as near end cross talk ("NEXT").

RoCat® cables are designed and produced to fulfill the highest requirements of various application areas in full volume.

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.



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
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

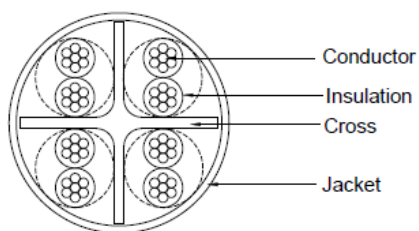
The results in the table above are typical for Category 6, Class E patch cords 2 m, 5 m up to 10 m in length

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Technical Drawing



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