

RoCat

Datasheet

Cat.6A S/FTP, TPE/LSZH, 4x2x26/7 AWG

Twisted Pair - Category 6_A Class E_A - S/FTP

Abstract

CAT 6_A Class E_A, S/FTP, Twisted Pair Patch Cord, Cu, LSZH, AWG 26/7, various colors available

Features

- Conductor: Cu (Copper)
- Shielding: S/FTP (complete braid shielding, pairs foil shielded)
- Structure: 4x 2 AWG 26/7, twisted pair
- Sheath: TPE-LSZH (Thermoplastic elastomers-Low Smoke Zero Halogen)
- PoE+ ready

Product Overview

The Category 6_A Class E_A cables are manufactured and tested to the ISO/IEC 11801 and DIN EN 50173 Category 6_A specifications. They will guarantee the installed cabling system is compliant with the ISO & EN channel specification requirements and will provide optimum performance levels of Category 6_A cabling. The performance is tested up to 500 MHz inclusive performance characteristics such as near end cross talk ("NEXT").

These cables are designed and produced to fulfill the highest requirements (component Level Standards) of various application areas in full volume. You can easily identify the Category 6_A, because of the transparent blue colored connector.

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Conductor	Stranded AWG 26/7 bare copper, 0.148 ± 0.005 mm
Insulations	FO-PE (Foamed Polyethylene)
Outer sheath	TPE-LSZH (Thermoplastic elastomers-Low Smoke Zero Halogen)
Overall diameter	5.8 mm \pm 0.30 mm
Bending radius	15x OD
Color code	Orange x White, Green x White, Blue x White, Brown x White
	Wiring standard EIA/TIA 568B
Contact resistance	30 m Ω maximum
Resistance unbalance	3% maximum
Dielectric strength	2500 VDC for 3 seconds
Uninsulated resistance	150 M Ω /km minimum
Operating temperature	-20 °C up to +60 °
NVP	76%
Flame retardancy	IEC 60332-1
Smoke emission	IEC 61034
Typical applications	IEEE 802.3: 10BASE-T; 100BASE-T; 1000BASE-T; 10GBASE-T
Norms	ISO/IEC 11801-1; EN-50173; ANSI/TIA 568-C.2; EN 60603-7-51
Colors	Various colors available on request
Marking	Brand name, cable length and cable information

Transmission Properties

Freq.	Insertion Loss	NEXT	RL	ACR-F	PS NEXT	PS ACRF
MHz	dB	dB	dB	dB	dB	dB
1.00	4.00	65.00	19.00	63.30	62.00	60.30
10.00	6.50	56.60	19.00	43.30	54.00	40.30
20.00	9.20	51.60	17.50	37.20	49.00	34.20
25.00	10.20	50.00	17.00	35.30	47.30	32.30
62.50	16.40	43.40	14.00	27.30	40.60	24.30
100.00	20.90	39.90	12.00	23.30	37.10	20.30
200.00	30.10	34.80	9.00	17.20	31.90	14.20
350.00	40.60	30.30	6.60	12.40	27.60	9.40
500.00	49.30	27.90	6.00	9.30	24.80	6.30

Technical Drawing

