

CATEGORY 6A S/FTP 30 AWG SLIM PATCH CORD

Norden Category 6A S/FTP slim patch cords are manufactured using high quality shielded four pair Category 6A stranded cable, and feature cable strain relief boots with a plug latch protection cap are applicable for easy installation and maintenance applications. The overall tinned copper wire shield provides excellent EMI protection increasing the overall performance. This patch cord, when used with high performance Norden Category 6A connectivity (Solid shielded cable, patch panels and work area outlets), provides superior performance capabilities of high bandwidth (Gigabit 1000Base-T and 1000Base-Tx) applications support. This is fully backward compatible. Each patch cord is tested with Fluke tester and individual cover included with the report. Norden Category 6A Patch cord is tested for transmission frequencies of up to 500 MHz.



COMPLIANCE

IEEE 802.af and IEEE 802.3at for PoE applications
 IEEE 802.3an-2006, and ISO 11801 Class EA channel standards
 IEC 60603-7, ISO/IEC-11801, EN 50575
 ANSI/TIA-968-A, ANSI/TIA-568-C.2 Category 6A

DESIGN & MATERIALS

Basic Cable Conductor	Stranded Bare Copper
Conductor Size	30 AWG ,7/0.10 ± 0.008
Insulation Material	HDPE
Number Of Insulated Conductors	8
Colour Code Of Pairs	Blue x White, Orange x White, Green x White, Brown x White
Insulation Thickness	0.205 mm
Insulation Diameter	0.715 ± 0.05 mm
Individual Pair Shield	Aluminium Foil
Overall Braid Shield	Tinned Copper Wire Braid
Braid Shield Coverage	≥ 60%
Drain Wire	No
Modular Plug Housing Material	PC , UL 94V-0
Modular Plug Contact Material	Phosphor Bronze
Boot Material	PVC , UL 94V-0
Outer Jacket Material	LSZH
Jacket Thickness	0.60 ± 0.05 mm
Jacket and Boot Colour	Per requirement
Standard Surface Marking	Includes Norden P/N, cable description
Cable O.D.	4.5 ± 0.30 mm
Minimum Bend Radius	8 x OD
Installation Temperature	-20 °C to +75 °C
Wire Scheme	T568B

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ELECTRICAL DATA

Impedance @ 100MHz	100 ± 15Ω
Max. Conductor DC Resistance	374 Ω/km
Min. Insulation Resistance	5000 MΩ-KM
Resistance Unbalance between pairs	≤ 4%
Max Mutual Capacitance	5.6 nF/100m
Pair To Ground Capacitance Unbalance	≤ 1600pf/100m
Delay Skew (1 – 250 MHz)	45 ns/100m
Voltage Rating	36 V
Dielectric Strength	DC 1KV/1Min
Velocity of Propagation (NVP)	69%

MECHANICAL & TRANSMISSION DATA

Before Aging Tensile Strength	≥ 10 Mpa
Before Aging Elongation	≥ 125%
After Aging Tensile Strength (100°C*24h*7d)	≥ 8 Mpa
After Aging Elongation	≥ 100%
Max. Pulling Force	110 N

TRANSMISSION PERFORMANCE DATA

Freq. (MHz)	NEXT(dB) min.			RL(dB) min.
	2m cord	5m cord	10m cord	
1	65.0	65.0	65.0	19.8
4	65.0	65.0	65.0	21.6
8	65.0	65.0	64.2	22.5
10	65.0	64.0	62.3	22.8
16	61.7	60.1	58.5	23.4
20	59.8	58.2	56.7	23.7
25	57.9	56.4	55.0	24.0
31.25	56.0	54.5	53.2	23.0
62.5	50.1	48.8	47.8	20.0
100	46.2	45.1	44.2	18.0
200	40.5	39.7	39.2	15.0
250	38.7	38.0	37.6	14.0
350	35.0	34.8	34.8	11.8
450	32.2	32.3	32.6	10.2
500	31.0	31.3	31.7	9.5

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ORDERING INFORMATION

Part Number	Description	Length
127-Y2501X	Category 6A S/FTP 30 AWG Slim Patch Cord LSZH , 1 Meter	1m
127-Y2502X	Category 6A S/FTP 30 AWG Slim Patch Cord LSZH , 2 Meter	2m
127-Y2503X	Category 6A S/FTP 30 AWG Slim Patch Cord LSZH , 3 Meter	3m
127-Y2505X	Category 6A S/FTP 30 AWG Slim Patch Cord LSZH , 5 Meter	5m
127-Y2507X	Category 6A S/FTP 30 AWG Slim Patch Cord LSZH , 7 Meter	7m
127-Y2510X	Category 6A S/FTP 30 AWG Slim Patch Cord LSZH , 10 Meter	10m
127-Y2515X	Category 6A S/FTP 30 AWG Slim Patch Cord LSZH , 15 Meter	15m
127-Y2520X	Category 6A S/FTP 30 AWG Slim Patch Cord LSZH , 20 Meter	20m

X: BK(Black), BL(Blue), GN(Green), GY(Gray), RD(Red), WH(White), YL(Yellow)