

# CATEGORY 6A U/FTP PATCH CORD E-SERIES

Norden augmented U/FTP patch cord delivers optimal transmission & networking performance with reduced Insertion loss and Alien crosstalk. This is fully backward compatible to Category 6 (Class E) and Category 5e (Class D) products and maximizes productivity levels 10 times the data throughput of Category 6. Each patch cord is tested with Fluke tester and individual cover include with the report. This Patch cord is tested for transmission frequencies up to 500 MHz and compatible with the 10 Gigabits applications, including the following protocols: Gigabit 1000BASE-T; 100BASE-T; 10 BASE-T (IEEE 802.3) 4/16 Mbps Token Ring (IEEE 802.5); 100 VG-Any LAN 100 Mbps TP-PMD (ANSI X3T9.5); 55/155 Mbps ATM Voice.



## 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,  
 ANSI/TIA-968-A, ANSI/TIA-568-C.2 Category 6A

## DESIGN & MATERIALS

Basic Cable Conductor	Stranded Bare Annealed Copper
Wire Insulation	SFS PE
Number Of Insulated Conductors	8
Colour Code Of Pairs	Blue x White, Orange x White, Green x White, Brown x White
Individual Pair Shield	Aluminium Foil
Overall Shield	Nil
Drain Wire	Yes
Outer Jacket and Boots	LSZH or PVC
Jacket and Boot Colour	Per requirement
Cable O.D.	6.0 ± 0.2 mm
Bend Radius	> 25 mm without load
Storage Temperature	-20 °C to +80 °C
Temperature Operating Range	-20 °C to +75 °C
Flame Test	IEC 60332-1 (LSZH)
Wire Scheme	T568B

## ELECTRICAL DATA

Impedance @ 1-250MHz	100 ± 15 Ω
Impedance @ 250-500MHz	100 ± 18 Ω
Conductor Resistance	< 73 Ω/km
Contact resistance	20 MΩ Max.
Resistance unbalance	2 % max.
Voltage rating	72 V dc
Dielectric strength	1 KV/min. rms
Ampacity	1.0 Amps max.
Insulation Resistance	150 MΩ/Km
Transfer Impedance	N/A
Pair to Ground Capacitance unbalance	3.3 nF/Km nom.

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## MECHANICAL & TRANSMISSION DATA

Cable to plug tensile strength	96 N min.
Pulling force	10 N max.
Durability	1000 Mating Cycles
Propagation Delay 1-250MHz	< 25 ns/100m

## TRANSMISSION PERFORMANCE DATA

Freq. (MHz)	NEXT(dB) min.				RL(dB) min.
	1m cord	2m cord	5m cord	10m cord	
1	65.5	65.0	65.0	65.0	19.5
4	65.5	65.5	65.5	65.5	22.0
10	65.0	64.9	64.4	62.9	23.0
20	61.0	60.8	59.2	58.6	23.5
30	56.9	56.3	54.9	53.6	22.8
60	51.0	50.4	49.2	48.1	20.0
100	47.0	46.4	45.4	44.5	18.0
200	41.1	40.7	39.9	39.3	15.0
250	39.3	38.9	38.1	37.7	14.0
300	36.4	36.2	35.9	35.8	12.8
400	31.8	31.9	32.1	32.5	10.9
500	28.1	28.3	29.3	29.6	9.5

## ORDERING INFORMATION

Part Number	Description	Length
127-K1301X	Category 6a U/FTP Patch Cord E Series PVC 01m	1m
127-K1302X	Category 6a U/FTP Patch Cord E Series PVC 02m	2m
127-K1303X	Category 6a U/FTP Patch Cord E Series PVC 03m	3m
127-K1305X	Category 6a U/FTP Patch Cord E Series PVC 05m	5m
127-K1310X	Category 6a U/FTP Patch Cord E Series PVC 10m	10m
127-K2301X	Category 6a U/FTP Patch Cord E Series LSZH 01m	1m
127-K2302X	Category 6a U/FTP Patch Cord E Series LSZH 02m	2m
127-K2303X	Category 6a U/FTP Patch Cord E Series LSZH 03m	3m
127-K2305X	Category 6a U/FTP Patch Cord E Series LSZH 05m	5m
127-K2310X	Category 6a U/FTP Patch Cord E Series LSZH 10m	10m

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

## CATEGORY 6A U/FTP PATCH CORD E-SERIES

### PACKING INFORMATION

Part Number	Packing Qty.	Packing Mode	N.W [kg]	G.W [kg]	Dimension (mm)
127-K1301X	150 x 1	Carton Box	7.2	8.3	460 x 290 x 275
127-K1302X	80 x 1	Carton Box	7.7	8.8	460 x 290 x 275
127-K1303X	60 x 1	Carton Box	7.7	8.8	460 x 290 x 275
127-K1305X	50 x 1	Carton Box	11.2	12.3	520 x 420 x 290
127-K1310X	25 x 1	Carton Box	10.8	11.9	520 x 420 x 290
127-K2301X	150 x 1	Carton Box	7.2	8.3	460 x 290 x 275
127-K2302X	80 x 1	Carton Box	7.7	8.8	460 x 290 x 275
127-K2303X	60 x 1	Carton Box	7.7	8.8	460 x 290 x 275
127-K2305X	50 x 1	Carton Box	11.2	12.3	520 x 420 x 290
127-K2310X	25 x 1	Carton Box	10.8	11.9	520 x 420 x 290