

## CATEGORY 6A S/FTP PATCH CORD

Norden augmented S/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 1000 BASE-T; 100 BASE-T; 10 BASE-T (IEEE 802.3) 4/16 Mbps Token Ring (IEEE 802.5); 100 VG-Any LAN



### COMPLIANCE

IEEE 802.af and IEEE 802.3at for PoE applications  
 IEEE 802.3an-2006, and ISO 11801 Class EA channel standards  
 IEEE 802.3bt Type 4  
 IEC 60603-7, ISO/IEC-11801, ANSI/TIA-968-A,  
 ANSI/TIA-568.2-D Category 6A, FCC Subpart F 68.5

### 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	Polyester-Aluminium Foil
Overall Shield	Tinned Copper Braid
Outer Jacket and Boots	LSZH Low Smoke Zero Halogen or PVC
Boot Option	Over-molded anti-snag strain relief boots
Standard Surface Marking	Includes Norden P/N, Cable Description
Cable O.Diameter	6.0 ± 0.2 mm
Contact Material	Copper Alloy
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
Halogen Content In LSZH Cables	Null
Wire Scheme	T568B

### ELECTRICAL DATA

Impedance @ 1-250 MHz	100 ±15 Ω
Impedance @ 250-500 MHz	100 ±18 Ω
Conductor Resistance	< 73 Ω/km
Contact Resistance	20 MΩ max.
Resistance Unbalance	2 % max.
Max Voltage	150 VAC (max)
Dielectric Strength	1 KV/min. rms
Max Current	1.5A @ 25°C
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 1-250 MHz	< 25 ns/100m

## TRANSMISSION PERFORMANCE DATA

Freq. (MHz)	NEXT(dB) min.				RL(dB) min.
	1m cord	2m cord	5m cord	10m cord	
1	65.0	65.0	65.0	65.0	19.5
4	65.0	65.0	65.0	65.0	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.	20.0
100	47.0	46.4	45.4	44.	18.0
200	41.1	40.7	39.9	39.	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
127-41501X	Category 6a S/FTP Patch Cord PVC 01m	1m
127-41502X	Category 6a S/FTP Patch Cord PVC 02m	2m
127-41503X	Category 6a S/FTP Patch Cord PVC 03m	3m
127-41505X	Category 6a S/FTP Patch Cord PVC 05m	5m
127-41510X	Category 6a S/FTP Patch Cord PVC 10m	10m
127-41515X	Category 6a S/FTP Patch Cord PVC 15m	15m
127-41520X	Category 6a S/FTP Patch Cord PVC 20m	20m
127-41525X	Category 6a S/FTP Patch Cord PVC 25m	25m
127-425H5X	Category 6a S/FTP Patch Cord LSZH 0.5m	0.5m
127-42501X	Category 6a S/FTP Patch Cord LSZH 01m	1m
127-425F5X	Category 6a S/FTP Patch Cord LSZH 1.5m	1.5m
127-42502X	Category 6a S/FTP Patch Cord LSZH 02m	2m
127-42503X	Category 6a S/FTP Patch Cord LSZH 03m	3m
127-42505X	Category 6a S/FTP Patch Cord LSZH 05m	5m
127-42510X	Category 6a S/FTP Patch Cord LSZH 10m	10m
127-42515X	Category 6a S/FTP Patch Cord LSZH 15m	15m
127-42520X	Category 6a S/FTP Patch Cord LSZH 20m	20m
127-42525X	Category 6a S/FTP Patch Cord LSZH 25m	25m

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

## CATEGORY 6A S/FTP PATCH CORD

### PACKING INFORMATION

Part Number	Packing Qty.	Packing Mode	N.W (kg)	G.W (kg)	Dimension (mm)
127-41501X	125 x 1	Carton Box	7.5	8.5	460 x 290 x 275
127-41502X	60 x 1	Carton Box	8.0	9.0	460 x 290 x 275
127-41503X	40 x 1	Carton Box	9.4	10.4	460 x 290 x 275
127-41505X	25 x 1	Carton Box	9.6	10.6	520 x 420 x 290
127-41510X	15 x 1	Carton Box	11.0	12.0	520 x 420 x 290
127-41515X	15 x 1	Carton Box	12.7	13.7	520 x 420 x 290
127-41520X	10 x 1	Carton Box	13.9	14.9	520 x 420 x 290
127-41525X	10 x 1	Carton Box	14.7	15.7	520 x 420 x 290
127-425H5X	125 x 1	Carton Box	7.3	8.3	460 x 290 x 275
127-42501X	125 x 1	Carton Box	7.5	8.5	460 x 290 x 275
127-425F5X	125 x 1	Carton Box	7.8	8.8	460 x 290 x 275
127-42502X	60 x 1	Carton Box	8.0	9.0	460 x 290 x 275
127-42503X	40 x 1	Carton Box	9.4	10.4	460 x 290 x 275
127-42505X	25 x 1	Carton Box	9.6	10.6	520 x 420 x 290
127-42510X	15 x 1	Carton Box	11.0	12.0	520 x 420 x 290
127-42515X	15 x 1	Carton Box	12.7	13.7	520 x 420 x 290
127-42520X	10 x 1	Carton Box	13.9	14.9	520 x 420 x 290
127-42525X	10 x 1	Carton Box	14.7	15.7	520 x 420 x 290