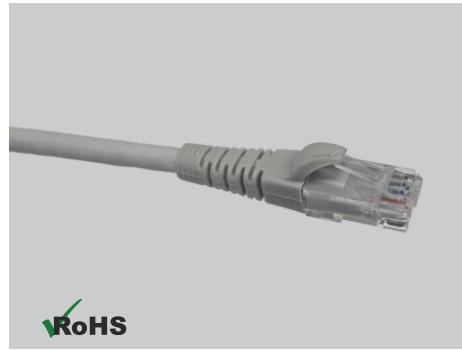


# CATEGORY 6A U/UTP PATCH CORD E-SERIES

The Norden Category 6A Unshielded Patch Cord E-Series provides high-performance transmission with reduced insertion loss and minimized alien crosstalk. It is fully backward compatible with Category 6 (Class E) and Category 5E (Class D) products, ensuring seamless integration and enhanced network efficiency. Tested to support transmission frequencies up to 500 MHz, this patch cord is ideal for 10 Gigabit applications. It is compatible with multiple protocols, including Gigabit 1000BASE-T, 100BASE-T, and 10BASE-T (IEEE 802.3).



## 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-568.2-D  
 IEC 60332-1, Category 6A

## DESIGN & MATERIALS

Conductor	Bare Copper
Conductor Size	24 AWG
Insulation	Polyolefin
Outer Jacket	PVC/LSZH
Jacket Colour	Grey
Cable Overall Diameter	6.00 ± 0.30mm
Rip Cord	Yes
Cross Filler	Yes
Temperature Rate	-20°C to +75°C

## ELECTRICAL DATA

DC Resistance Max	98 Ω/km at 20°C
Resistance Unbalance	5 % Max
Max .Mutual Capacitance	5.6 nf/100M
Max. Capacitance Unbalance	330 pf/100M
Characteristic Impedance	100 Ω ± 15%
Cable Delay Skew	45 ns/100 mtr
Velocity of Propagation	69%



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### TRANSMISSION PERFORMANCE DATA

Freq. (MHz)	ATT (dB/100m) max.	NEXT (dB) min.	PS.NEXT (dB) min.	ACRF (dB@100m) min.	PS.ACRF (dB@100m) min	Return Loss (dB/100m)
1	2.3	65.0	62.0	63.3	60.3	19.0
4	4.2	63.0	60.5	51.2	48.2	19.0
8	5.8	58.2	55.6	45.2	42.2	19.0
10	6.5	56.6	54.0	43.3	40.3	19.0
16	8.2	53.2	50.6	39.2	36.2	18.0
20	9.2	51.6	49.0	37.2	34.2	17.5
25	10.2	50.0	47.3	35.3	32.3	17.0
100	20.9	39.9	37.1	23.3	20.3	12.0
200	30.1	34.8	31.9	17.2	14.2	9.0
250	33.9	33.1	30.2	15.3	12.3	8.0
300	37.4	31.7	28.8	13.7	10.7	7.2
400	43.7	28.7	25.8	11.2	8.2	6.0
500	49.3	26.1	23.2	9.3	6.3	6.0

### ORDERING INFORMATION

Part Number	Description
127-K1101X	Category 6A U/UTP Patch Cord E-Series PVC 01m
127-K1102X	Category 6A U/UTP Patch Cord E-Series PVC 02m
127-K1103X	Category 6A U/UTP Patch Cord E-Series PVC 03m
127-K1105X	Category 6A U/UTP Patch Cord E-Series PVC 05m
127-K2101X	Category 6A U/UTP Patch Cord E-Series LSZH 01m
127-K2102X	Category 6A U/UTP Patch Cord E-Series LSZH 02m
127-K2103X	Category 6A U/UTP Patch Cord E-Series LSZH 03m
127-K2105X	Category 6A U/UTP Patch Cord E-Series LSZH 05m