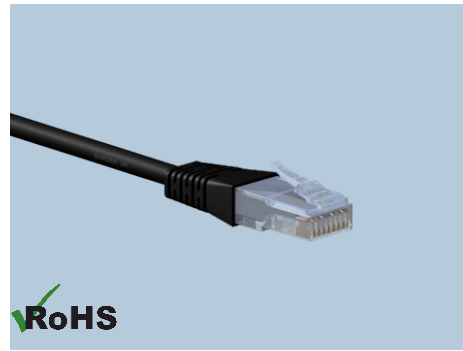


# CAT 6 U/UTP DOUBLE JACKET ALUMINIUM WIRE ARMoured PATCH CORD



CAT 6 UTP cable consists of eight copper conductors, with two conductors twisted together to form one pair. A total of four twisted pairs are laid up and separated by a special cross-separator, which enhances electrical performance by reducing crosstalk. The four pairs are assembled together and covered with an extruded PVC inner sheath, providing mechanical stability. This is followed by aluminium armouring, offering protection against mechanical damage and rodent attack. The overall outer sheath is UV-resistant LSZH (Low Smoke Zero Halogen), making the cable suitable for outdoor installations with enhanced fire safety and environmental resistance.



## COMPLIANCE

IEEE 802.af and IEEE 802.3at for PoE applications  
EIA/TIA 568-D.2

## DESIGN & MATERIALS

Conductor	Stranded Bare Electrolytic Grade Copper
Conductor Size	24 AWG (7/0.195 ± 0.015MM)
Wire Insulation	HDPE
Pairing	Twisted into Two Core
No.of Pair	4 nos, Each pair Twisted
Number of Insulated Conductors	8
Colour Code Of Pairs	Blue x White, Orange x White, Green x White, Brown x White
Inner Sheath	PVC
Colour of Inner Sheath	Natural White
Armouring	Aluminium Wire
Outer Sheath	LSZH with UV Properties
Colour Of outer Sheath	Black
Cable O.D.	9.80 ± 0.50 mm
Standard Surface Marking	Includes Norden P/N, cable description
Cross Filler	Yes
Operating Temperature	- 20 to +75°C

## ELECTRICAL DATA

Characteristic Impedance	100 ± 15% Ohms
Conductor Resistance	Max. 93.8 Ω /km @ 20°C
Resistance Unbalance	Max. 5%
Mutual Capacitance	Max. 5.6 nf/100 mtr
Pair to Ground Capacitance Unbalance	Max. 330 pf/100 mtr
Normal Velocity of Propagation	69%
Worst Case Cable Skew	Max. 45 ns/100 mtr
Worst Cable Skew	45 ns/100 mtr

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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) min.
1	2.1	65.0	62.0	63.3	60.3	19.0
4	4.0	63.0	60.5	51.2	48.2	19.0
8	5.7	58.2	55.6	45.2	42.2	19.0
10	6.3	56.6	54.0	43.3	40.3	19.0
16	8.0	53.2	50.6	39.2	36.2	18.0
20	9.0	51.6	49.0	37.2	34.2	17.5
25	10.1	50.0	47.3	35.3	32.3	17.0
31.25	11.4	48.4	45.7	33.4	30.4	16.5
62.5	16.5	43.4	40.6	27.3	24.3	14.0
100	21.3	39.9	37.1	23.3	20.3	12.0
200	31.5	34.8	31.9	17.2	14.2	9.0
250	35.9	33.1	30.2	15.3	12.3	8.0

## ORDERING INFORMATION

Part Number	Description	Length
NC45-37101X	CAT 6 U/UTP Double Jacket Aluminium Wire Armoured Patch Cord PVC/UV- LSZH-01mtr	01m
NC45-37102X	CAT 6 U/UTP Double Jacket Aluminium Wire Armoured Patch Cord PVC/UV-LSZH-02mtr	02m
NC45-37105X	CAT 6 U/UTP Double Jacket Aluminium Wire Armoured Patch Cord PVC/UV- LSZH-05mtr	05m
NC45-37110X	CAT 6 U/UTP Double Jacket Aluminium Wire Armoured Patch Cord PVC/UV-LSZH-10mtr	10m
NC45-37120X	CAT 6 U/UTP Double Jacket Aluminium Wire Armoured Patch Cord PVC/UV-LSZH-20mtr	20m

X: BK(Black)