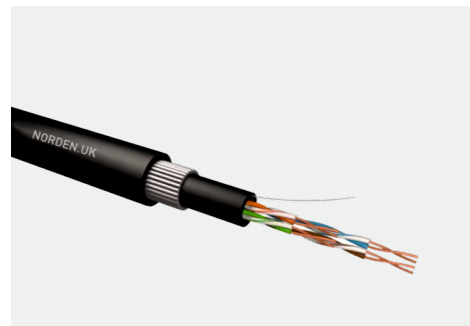


CAT 6A U/UTP GALVANIZED STEEL WIRE ARMoured EXTERNAL CABLE

Norden Category 6A U/UTP armoured cables exceed Category 6A/ Class E specification. It is tested to 500MHz frequency range and designed to support 1000Base-T and 1000Base-Tx applications. Extremely high pair-balance providing excellent EMC (ElectroMagnetic Compatibility). minimizing radiation, maximizing noiseimmunity and providing high alien cross talk performance to U/UTP(Unshielded Twisted Pair) cabling systems. Cat 6A UTP armoured cable consists of 23 AWG Solid Bare Electrolytic Grade Copper conductors,twisted 4 pair stranded over cross PE separator filler,Galvanized steel wire armour,LSZH inner sheath and LSZH outer sheath.



COMPLIANCE

IEEE 802.3an :2006 (10GBASE-T)
ANSI/TIA-568.2-D Category 6A
ISO/IEC-11801, 2nd Edition Class E
IEC 61156-5:2002 Category 6A
LSZH: IEC 60332-1, IEC 60754, IEC 61034

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Solid Bare Electrolytic Grade Copper
Conductor Size	23AWG , 0.555 ± 0.015 mm
Conductor Construction	Solid
Insulation Material	Polyolefin
Insulation O.D.	1.02 ± 0.5 mm
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Conductor Unit Lay-Up	Pairs
Total Number of Wires	8
Separator	HDPE
Inner Jacket Material	LSZH
Armour	Galvanized Steel Wire
Armour Thickness	0.6mm
Outer Jacket Material	LSZH
Ex. Diameter	9.50 ± 0.50 mm
Outer Jacket Colour	Black

CAT 6A U/UTP GALVANIZED STEEL WIRE ARMoured EXTERNAL CABLE

ELECTRICAL & MECHANICAL CHARACTERISTICS

Conductor Resistance @20°C	Max. 93.8 Ohm/km
Conductor Resistance Unbalance	Max. 5 %
Mutual Capacitance @1KHZ	< 5.6nF/100m
Capacitance Earth Unbalance	330pF/100m
Propagation Delay Skew 1 – 500 MHz	< 45 ns
Characteristic Impedance (1-250 MHz)	100 ± 15Ω
Normal Velocity of Propagation	69 %
Temperature Range	-20°C up to +75°C

TRANSMISSION PERFORMANCE

Electrical Characteristics meet or exceed 70 Meter TIA Cat 6A Channel Spec.

Freq. MHz	ATT (dB/100m)	NEXT dB (Min.)	PS NEXT dB (Min.)	RL (dB100m)	ACR-F (dB@100m)	PS ACR-F (dB@100m)
1	2.3	65	62.0	19.0	63.3	60.3
4	4.2	63	60.5	19.0	51.2	48.2
8	5.8	58.2	55.6	19.0	45.2	42.2
10	6.5	56.6	54.0	19.0	43.3	40.3
16	8.2	53.2	50.6	18.0	39.2	36.2
20	9.2	51.6	49.0	17.5	37.2	34.2
25	10.2	50	47.3	17.0	35.3	32.3
100	20.9	39.9	37.1	12.0	23.3	20.3
200	30.1	34.8	31.9	9.0	17.2	14.2
250	33.9	33.1	30.2	8.0	15.3	12.3
300	37.4	31.7	28.8	7.2	13.7	10.7
400	43.7	28.7	25.8	6.0	11.2	8.2
500	49.3	26.1	23.2	6.0	9.3	6.3

ORDERING INFORMATION

Part Number	Description	Standard Length
114-20F22104X	Cat 6A U/UTP Galvanized Steel Wire Armoured External Cable	305 mtr

X:BK(Black)