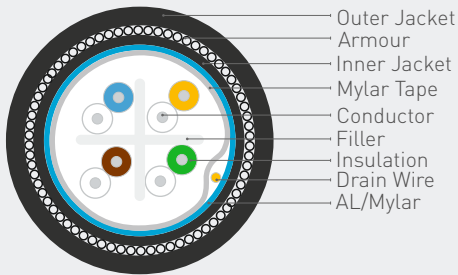
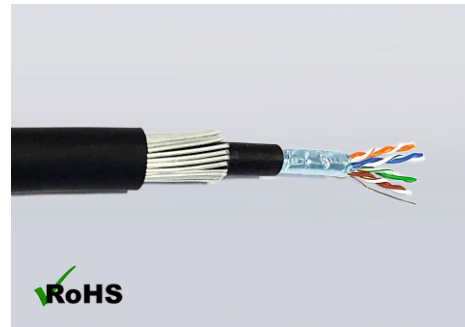


# CATEGORY 6A F/UTP DOUBLE JACKET STEEL WIRE ARMoured CABLE PE / LSZH ( IEC 60332-3-22 )

The Norden Category 6A F/UTP Double Jacket Galvanized Steel Wire Armoured Cable exceeds Category 6A/Class EA standards, making it an excellent choice for high-speed data networks. Tested to a frequency range of 500 MHz, it fully supports 10 Gigabit Ethernet applications. Designed for outdoor environments, it includes a galvanized steel wire armoured layer that provides exceptional durability and impact protection. Its LSZH outer sheath offers reliable reduced toxic emissions in case of fire. The F/UTP structure also minimizes interference, ensuring secure and efficient performance in challenging settings.



## COMPLIANCE

IEEE 802.3an :2006 (10GBASE-T)  
ANSI/TIA - 568.2-D Category 6A  
ISO/IEC-11801, 2nd Edition Class EA  
IEC 61156-5:2002 Category 6A  
LSZH : IEC 60332-3-22, IEC 60754-2, IEC 61034-2

## MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare Copper
Conductor Size	0.565 mm , 23AWG
Conductor Construction	Solid
Insulation Material	PE
Insulation Diameter	1.18 ± 0.10 mm
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Tape	Mylar Tape
Filler	PE Cross Separator
Overall Foil Shield	Yes
Overall Shield Material	AL/Mylar Tape
Drain-Wire	Yes
Drain-Wire Construction	Solid
Total number of Wires	8
Inner Sheath Material	PE
Inner Sheath Diameter	8.00 ± 0.50 mm
Armoured Material	Galvanized Steel Wire
Armouring Thickness	0.90 mm
Armour Coverage	≥ 90%
Outer Jacket Material	LSZH ( IEC 60332-3-22 )
Outer Jacket Diameter	2.00 ± 0.60 mm
Outer Jacket Colour	Black
Marking	Per Requirement

# CATEGORY 6A F/UTP DOUBLE JACKET STEEL WIRE ARMoured CABLE PE / LSZH ( IEC 60332-3-22 )

## ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 500 MHz
Impedance	100 ± 15 Ohms @ 100 Mhz
DC Resistance	≤ 95 Ohm/km
Resistance Unbalance	≤ 5%
Insulation Resistance	≥ 5000 MΩ-km
Capacitance	5.6 nf/100m
Capacitance Unbalance	330 pf/100 m
Velocity of Propagation	69 %
Propagation Delay Skew	≤ 25 ns/100m
Dielectric Strength	DC 1KV for 1min. no breakdown
Dielectric Strength to Shield	DC,1.5 KV/minute
Min. Insulation Resistance	5 GΩ.km
Max. Tensile Strength - Short Term	130N
Min. Bend Radius	Fixed : 20 x OD
Operating Temperature Range	-20 °C to +75 °C
Installation Temperature Range	0 °C to + 60 °C

## TRANSMISSION PERFORMANCE

Frequency MHz	ATT [dB] Max.	RL [dB] Min.	NEXT [dB] Min.	PSNEXT [dB] Min.	ACRF [dB] Min.	PSACRF [dB] Min.
1	3.0	19.0	65.0	62.0	63.3	60.3
4	4.2	19.0	63.0	60.5	51.2	48.2
8	5.8	19.0	58.2	55.6	45.2	42.2
10	6.5	19.0	56.6	54.0	43.3	40.3
16	8.2	18.0	53.2	50.6	39.2	36.2
20	9.2	17.5	51.6	49.0	37.2	34.2
25	10.2	17.0	50.0	47.3	35.3	32.3
31	11.5	16.5	48.4	45.7	33.4	30.4
62	16.4	14.0	43.4	40.6	27.3	24.3
100	20.9	12.0	39.9	37.1	23.3	20.3
200	30.1	9.0	34.8	31.9	17.2	14.2
250	33.9	8.0	33.1	30.2	15.3	12.3
300	37.4	7.2	31.7	28.8	13.7	10.7
400	43.7	6.0	28.7	25.8	11.2	8.2
500	49.3	6.0	26.1	23.2	9.3	6.3

## ORDERING INFORMATION

Part Number	Description
114-20F3M204X	Category 6A F/UTP Double Jacket Galvanized Steel Wire Armoured Cable PE / LSZH ( IEC 60332-3-22 )

X: BK(Black)

Packing Length : 500 mtr/Drum