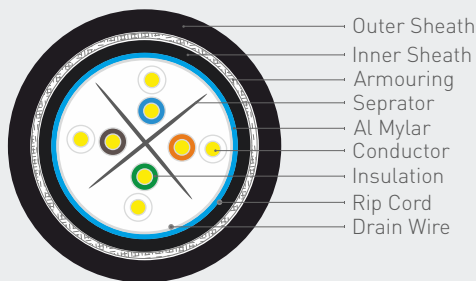
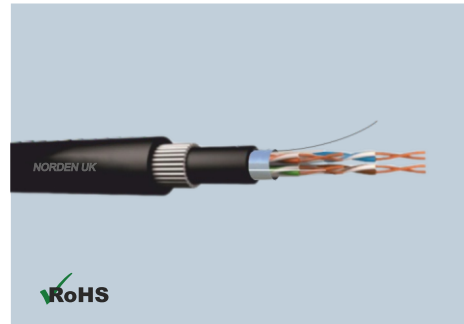


# CATEGORY 6 F/UTP 4 PAIR 23 AWG GALVANIZED STEEL WIRE ARMoured CABLE LSZH/PE

Norden Category 6 F/UTP Double jacket Steel wire Armoured cables exceed Category 6 / Class E specification. It is tested up to 250 MHz frequency range and designed to support Gigabit 1000Base-T and 1000Base-Tx applications. This cable has LSZH inner jacket and PE outer jacket. Extremely high pair balance providing excellent EMC (Electromagnetic Compatibility), minimizing radiation, maximizing noise immunity, and providing high alien crosstalk performance to F/UTP cabling systems.



## COMPLIANCE

IEEE 802.3af, IEEE 802.3at for PoE applications  
ANSI/TIA-568.2-D Category 6  
ISO/IEC-11801, Class E / IEC 61156-5: Category 6.  
LSZH: IEC 60332-1, IEC 60754, IEC 61034

## PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable

## MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Solid Bare Electrolytic Grade Copper
Conductor Size	23AWG
Conductor Construction	Solid
Insulation Material	Polyethylene (HDPE)
Insulation O.D	1.09 ± 0.05mm
Conductor Unit Identification	Solid/Stripe
Conductor Unit Lay-Up	Pairs
Total Number of Wires	8
Cross Filler	Yes
Foil Shielding	Aluminium Foil
Drain Wire	Annealed Tinned Copper
Inner Sheath Material	LSZH
Inner Sheath Thickness	0.60 ± 0.05 mm
Inner Sheath Diameter	6.70 ± 0.30 mm
Armour	Galvanized Steel Wire
Armour Thickness	0.60 mm
Rip cord	Yes
Outer Jacket Material	PE
Outer Jacket Thickness	0.85 ± 0.05mm
Outer Jacket Diameter	9.60 ± 1.0 mm



## CATEGORY 6 F/UTP 4 PAIR 23 AWG GALVANIZED STEEL WIRE ARMoured CABLE LSZH/PE

Outer Jacket Colour	Black
Fire Rating	IEC 60332-1
UV Resistance	Yes

### ELECTRICAL & MECHANICAL CHARACTERISTICS

Conductor Impedance	100 ± 15% Ω
Max. DC Resistance @ 20°C	93.8 Ω /km
Max. Resistance Unbalance	5.0%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance Pair/Ground	330 pf/100m
Velocity of Propagation	69 %
Propagation Delay Skew	45 ns/100m
Pulling Force	100N
Propagation Delay	<536 ns/100m @ 100MHz
Min. Insulation Resistance	1000 MΩ
Bend Radius	8 x cable diameter
Operating Temperature	-20 °C to 75 °C

### TRANSMISSION PERFORMANCE

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

Frequency (Mhz)	Attenuation dB/100m @ 20°C	NEXT (dB)min.	PS NEXT (dB)min.	ACRF (dB@100 m) min.	PS.ACRF (dB@ 100 m) min	RL (dB/100m)
1	2.1	65	62	63.3	60.3	19
4	4	63	60.5	51.2	48.2	19
8	5.7	58.2	55.6	45.2	42.2	19
10	6.3	56.6	54	43.3	40.3	19
16	8	53.2	50.6	39.2	36.2	18
20	9	51.6	49	37.2	34.2	17.5
25	10.1	50	47.3	35.3	32.3	17
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
100	21.3	39.9	37.1	23.3	20.3	12
200	31.5	34.8	31.9	17.2	14.2	9
250	35.9	33.1	30.2	15.3	12.3	8

### ORDERING INFORMATION

Part Number	Description	Standard Length
113-20423204X	CAT 6 F/UTP 4 Pair 23 AWG Galvanized Steel Wire Armoured Cable LSZH/PE	305 mtr

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