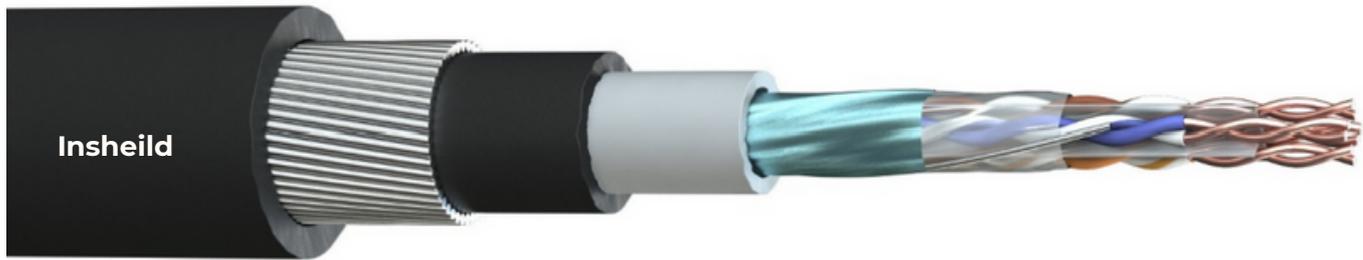


MAIN STRUCTURE



DESCRIPTION:

NSHEILD® Cat6 UTP armoured Cable Consists of PE Insulated 23AWG Solid Bare Annealed Copper Conductors, twisted 4pair stranded over Cross PE Separator filler, Inner sheath, GI wire Armour and Outer black Polyethylene Sheath.

FEATURES

- Meets Transmission requirements of TIA/EIA 568 C.2 & ISO/IEC 11801
- Performance specification up to 250 Mhz
- UV resistance outer sheath
- Inner Sheath Flame Retardant (IEC60332-1)
- Suitable for Outdoor application
- Rugged Double sheath construction
- RoHS Complaint
- GI Wire ARMOUR provides Excellent Mechanical protection

APPLICATION

These are structured cables suitable for Ethernet Applications and compatible with all known connection Systems. Ideal for high performance workstation applications including voice/data systems, Digital video, Broadband and Voice over internet protocol etc.

CONSTRUCTION	
Category	CAT 6 F/UTP - 23 AWG
Conductor	23 AWG Solid Bare Copper
Pair Color Codes	White/Blue, and Blue White/Orange, and Orange White/Green, and Green White/Brown, and Brown
Insulation	High-Density Polyethylene (HDPE)
Insulation diameter	0.990 mm ± 0.05 mm
Shielding	F/UTP, An aluminized polyester tape applied with a 15% minimum overlap at 4 twisted pairs, the drain wire is attached to the Al. foil overlap at 4 twisted pairs, the drain wire is attached to the Al. foil
Twisting	1: White Blue/Blue 2: Orange White/Orange 3: White Green/Green 4: Brown White/Brown
Cable lay-up	4 pairs with different pitches
Outer diameter	7.2mm±0.2mm
Outer jacket Materials	PVC
Color	Blue (RAL 5012) Grey (RAL 7046)

TECHNICAL SPECIFICATIONS	
Mechanical Properties	
Bending Radius	≤ 8 x Cable Diameter
Pulling Tension, maximum	100 N
Electrical Properties (-20°C ± 5° C)	
Max. Operating Voltage	80V
Mutual Capacitance (nF/100M)	5.6 (Max.)
Resistance Unbalance (%)	5 (Max.)
Characteristic impedance (Ω)	100 ± 15
Nominal velocity of propagation	68%
Worst Delay Skew	≤44 ns/100 m
Environmental specifications	
Operation Temperature	-15 to +75 °C
Installation Temperature	0 to +50 °C
Packing information	
Packing Length	305M per Box, 500M Per Reel

TRANSMISSION CHARACTERISTICS

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	Prop. Delay (ns/100m)	ACR-F (dB/100m)	PSACR-F (dB/100m)	Return Loss (dB)
1	2	74.5	570	72.3	68	65	20
4	3.7	65.3	552	63.3	56	53	23
10	5.9	59.3	545	57.3	48	45	25
20	8.3	54.8	541.2	52.8	42	39	25
62.5	14.9	47.4	538.5	45.4	32.1	29.1	21.5
100	19	44.3	537.6	42.3	28	25	20
250	31	38.2	536.1	36.5	20	17	17.3
500	45.4	33.7	532	31.8	14	11	15.2
600	50.1	60.7	535.5	57.7	38.4	35.4	17.3

Ordering Information

Part No	Product Description
C6ARL5X	INSHEILD CAT 6 ARMoured CABLE 23AWG 500M REEL