NETSYS

YOUR NETWORK GATE

COPPER CAT 6 CABLE

Product Web Page

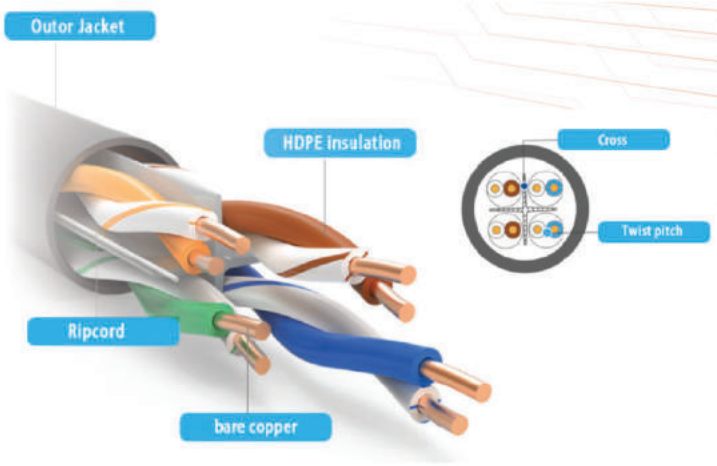
NS-106ASFTP-500GR-L

A STANDARDIZED TWISTED PAIR CABLE FOR ETHERNET AND OTHER NETWORK PHYSICAL LAYERS THAT IS BACKWARD COMPATIBLE WITH THE CATEGORY 5/5E AND CATEGORY 3 CABLE STANDARDS. CAT 6 MUST MEET MORE STRINGENT SPECIFICATIONS FOR CROSSTALK AND SYSTEM NOISE THAN CAT 5 AND CAT 5E

ETHERNET CABLE CAT6A SFTP 23AWG LSZH 500M GRAY

DESCRIPTION

Ethernet Cable Cat6A SFTP 23AWG Solid Bare Copper Wire, 500MHz, Shieled 500M Roll LSZH Gray Jacket



FEATURES

This cable is widely compatible with
10/100/1000-T and 10G-T Ethernet.
RJ45 Connectors.
Shielded Foiled Twisted Pair.
1,000 ft pull box

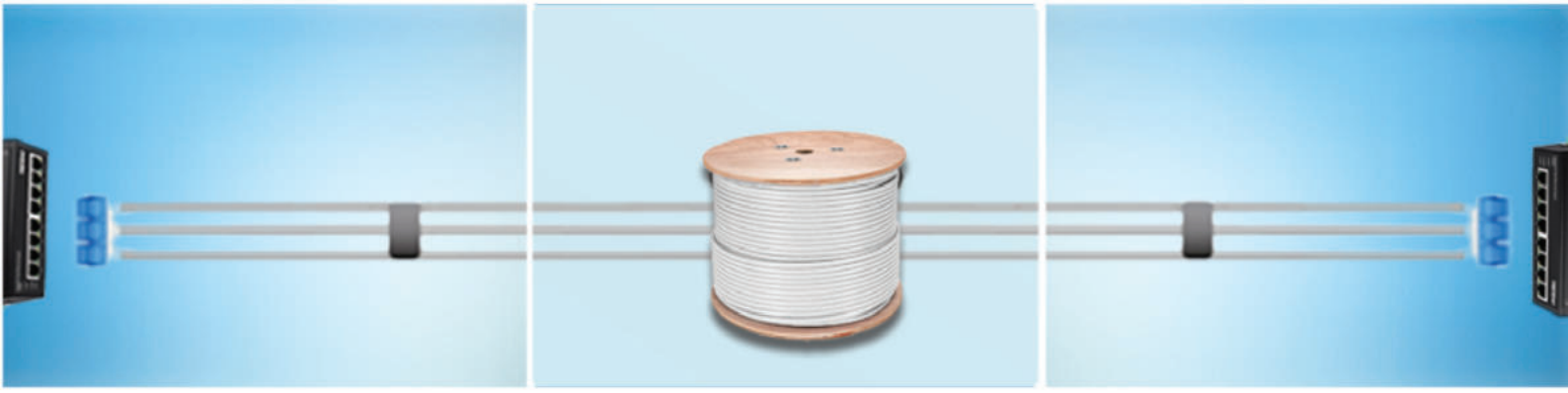
STANDARD COMPLIANCES

ANSI/TIA/EIA 568 B.2-1 (Category 6).
ANSI/TIA/EIA 862 (Building Automation).
ISO/IEC 11801 Ed. 2.0 (Class E).
ICEA S-102-700 (Category 6).
UL 444.
RoHS Compliant Directive 2002/95/EC.
NEC/CEC Type CMP (NFPA 262) for Plenum.
NEC/CEC Type CMR (UL 1666) for Non Plenum

APPLICATIONS

IEEE 802.3: 1000 BASE-T (Gigabit Ethernet),
100 BASE-TX, 10 BASE-T.
ANSI/TIA/EIA 854:1000 BASE-TX.
ANSI X3.263: 100 Mb/s
155 Mp/s, 1.2 Gb/s ATM.
IEEE 802.3af DTE Power (PoE).
Digital Video. Broadband and Baseband Analog Video. Draft IEEE 802.3at for PoE Plus.

TECHNICAL SPECIFICATION



ELECTRICAL PROPERTIES

ELECTRICAL PROPERTIES (20°C) **REFERENCE STANDARD: ANSI/TIA-568.2-D**

Working capacity	Capacitive Unbalance To Earth	Delay skew	Conductor Resistance	Electric Balance Of The Conductor	Insulation Resistance	Impedance
≤5.6nF/100m (@1kHz)	≤160pF/100m	≤45ns/100m	≤93.8Ω/km	≤5%(@20°C)	≥5000MΩ.km	100±22Ω

PRODUCT STRUCTURE

CONDUCTOR

Conductor	Insulation	Insulation Diameter Ø	Insulation Colour	Seperator
0.57±0.01mm (23AWG)	PE	1.35±0.1mm	Blue/White-Blue Orange/White-Orange Green/White-Green Brown/White-Brown	Al Foil

JACKET

Rip cord	Jacket	Jacket Diameter Ø	Thickness	Jacket Colour	Cable Printing
Yes	LSZH	7.8±0.5mm	0.55±0.1m	Gray	According Customer Requirement

MECHANICAL PROPERTIES

Operating temperature	Minimum Bending radius	Jacket Elongation at break	Jacket Tensile strength
-20~60°C	8 x Cable OD	≥100%	≥13.8Mpa

Jacket Aging conditions	Jacket Elongation at break After Aging	Jacket Tensile strength After Aging	Low temperature winding experiment
100°C 240h	≥50% Before Aging	≥85% Before Aging	-20°C 4h No visible cracks

FREQUENCY PERFORMANCE

HIGH FREQUENCY ELECTRICAL PERFORMANCE: (20°C 100M)

FREQ (MHz)	ATT (sdB)	NEXT (dB)	PSNEXT (2dB)	ELFEXT (dB)	PS ELFEXT (dB)	RL (2dB)
1.00	2.0	74.3	72.3	67.8	64.8	20.0
4.00	3.8	65.3	63.3	55.8	52.8	23.0
8.00	5.3	60.8	58.8	49.7	46.7	24.5
10.00	6.0	59.3	57.3	47.8	44.8	25.0
16.00	7.6	56.2	54.2	43.7	40.7	25.0
20.00	8.5	54.8	52.8	41.8	38.8	25.0
25.00	9.5	53.3	51.3	39.8	36.8	24.3
31.25	10.7	51.9	49.9	37.9	34.9	23.6
62.50	15.4	47.4	45.4	31.9	28.9	21.5
100.00	19.8	44.3	42.3	27.8	24.8	20.1
200.00	29.0	39.8	37.8	21.8	18.8	18.0
250.00	32.8	38.3	36.3	19.8	16.8	17.3