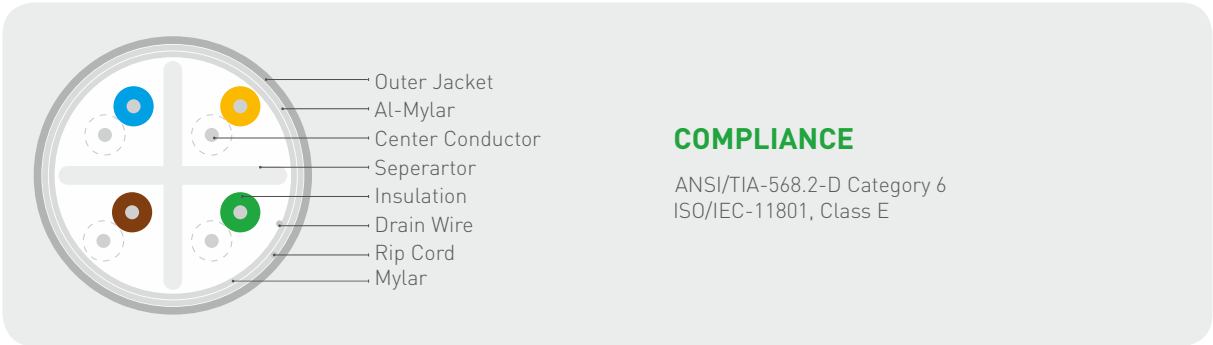
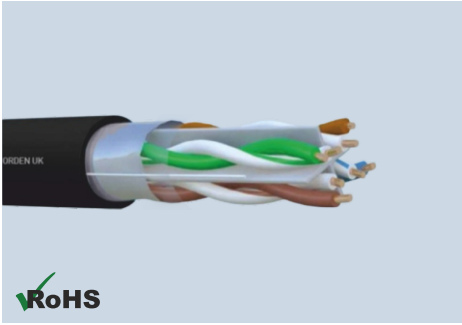


CATEGORY 6 F/UTP JELLY FILLED 4 PAIR EXTERNAL WATERPROOF CABLE LDPE

Norden Category 6 F/UTP Jelly-Filled Waterproof Cables exceed Category 6/Class E specifications. They are tested up to a 250 MHz frequency range and are designed to support Gigabit Ethernet applications, including 1000Base-T and 1000Base-TX, over distances of up to 100 meters. The cable features Al-Mylar foil shielding, which enhances signal integrity, minimizes electromagnetic interference, maximizes noise immunity, and ensures excellent alien crosstalk performance.

These jelly-filled, waterproof cables are ideal for high-speed data transmission in underground duct installations, providing reliable and consistent performance.



PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare Copper
Conductor Size	23AWG
Conductor Construction	Solid
Insulation Material	HDPE
Insulation Diameter	1.12 mm, ±0.08mm
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Screening Material	Mylar +Al/Mylar
Screening Design	100% Coverage
Total Number of Wires	8
Rip Cord	Yes
Drain-Wire	Yes
Outer Jacket	LDPE
Outer Jacket Thickness & Ex. Diameter	0.90 ± 0.1mm, 8.4 ± 0.5 mm
Outer Jacket Colour	Black or Per Requirement
Marking	Per Requirement

CATEGORY 6 F/UTP JELLY FILLED 4 PAIR EXTERNAL WATERPROOF CABLE LDPE

ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 250 MHz
Impedance	100 Ω \pm 5
Coupling Attenuation	40 dB min @ 30-100 MHz 40-20 Log (f/100) @100-300 MHz
DC Resistance	95 Ω /km
Max. Resistance Unbalance	5 %
Capacitance	6.6nF/100m
Capacitance Unbalance To Ground	Max 330 pf/100m
Propagation Delay Skew	\leq 45 ns/100m
Velocity of Propagation	68 %
Dielectric Strength	DC 1000V 1min No Breakdown
Min. Insulation Resistance	5 G Ω • km
Tensile Strength (Before Aging)	\geq 10.0Mpa
Elongation (Before Aging)	\geq 350%
Elongation (After Aging)	\geq 300%
Min. Bend Radius	8*OD
Cold Bend (-20 \pm 2°C \times 4h)	8*OD, No visible cracks
Operating Temperature Range	-40°C to +75°C

TRANSMISSION PERFORMANCE

Frequency MHz	RL (\geq dB)	ATT (\leq dB)	NEXT (\geq dB)	DELAY (\leq ns)	PSNEXT (\geq dB)	ELFEXT (\geq dB)	PSELFEXT (\geq dB)
1	19.1	3.0	65.0	521	62.0	64.2	61.2
4	21.0	3.5	64.1	504	61.8	52.1	49.1
8	21.0	5.0	59.4	500	57.0	46.1	43.1
10	21.0	5.5	57.8	498	55.5	44.2	41.2
16	20.0	7.0	54.6	496	52.2	40.1	37.1
20	19.5	7.9	53.1	495	50.7	38.2	35.2
25	19.0	8.9	51.5	495	49.1	36.2	33.2
31.25	18.5	10.0	50.0	494	47.5	34.3	31.3
62.5	16.0	14.4	45.1	492	42.7	28.3	25.3
100	14.0	18.6	41.8	491	39.3	24.2	21.2
200	11.0	27.4	36.9	490	34.3	18.2	15.2
250	10.0	31.1	35.3	490	32.7	16.2	13.2

ORDERING INFORMATION

Part Number	Description	Standard Length
113-2010K204X	Category 6 F/UTP Jelly Filled 4 Pair External Water Proof Cable LDPE	305 mtr