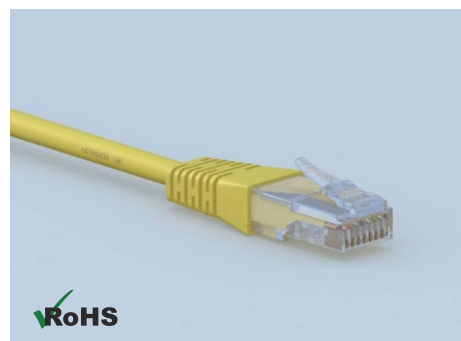


CATEGORY 6 F/UTP CROSSOVER PATCH CORD

Norden Category 6 F/UTP Cross-over patch cords are manufactured using high quality F/UTP four pair Category 6 stranded cable, and feature cable strain relief boots with a plug latch protection cap. This patch cord when used with high-performance Norden Category 6 connectivity (solid F/UTP cable, patch panels and work area outlets), provide superior capabilities of high bandwidth (Gigabit 1000Base-T and 1000Base-Tx) applications support. This is fully backward compatible to Category 5e (Class D) products. Each patch cord is tested with Fluke tester and individual cover include with the report .Norden Category 6 Patch cord is tested for transmission frequencies of up to 250 Mhz.



COMPLIANCE

IEEE 802.af and IEEE 802.3at for PoE applications
ANSI/TIA-568-C.2 and ISO/IEC-11801 (2nd Edition)
IEC 61156-2, EN 50173; EN 50288-6-2 Category 6 standard

DESIGN & MATERIALS

| | |
|--------------------------------|--|
| Basic Cable Conductor | Stranded Bare Copper |
| Conductor Size | 7/0.16, 26 AWG |
| Wire Insulation | PE |
| Number Of Insulated Conductors | 8 |
| Colour Code Of Pairs | Blue x White, Orange x White, Green x White, Brown x White |
| Individual Pair Shield | Polyester Tape $\geq 25\%$ |
| Overall Shield | Aluminum/Polyester $\geq 25\%$ |
| Drain Wire | Solid Tinned copper |
| Outer Jacket Material | LSZH |
| Jacket Colour | Per requirement |
| Standard Surface Marking | Includes Norden P/N, cable description |
| Separator | PE-Cross |
| Insulation Thickness | 0.21 mm |
| Insulation Diameter | 0.90 (± 0.05 mm) |
| Jacket Thickness | 0.55 mm |
| Jacket Diameter | 6.0 (± 0.30 mm) |
| Flame Test | IEC 60332-1 |

ELECTRICAL DATA

| | |
|--------------------------------------|---------------------|
| Impedance @ 1-100 MHz | 100 $\pm 15 \Omega$ |
| Impedance @ 100-250 MHz | 100 $\pm 15 \Omega$ |
| Max. Conductor Resistance | 148 Ω /km |
| Min. Insulation Resistance | 5000 M Ω -KM |
| Dielectric Strength | DC-1KV/1 Min |
| Pair To Ground Capacitance Unbalance | ≤ 330 Pf/100m |
| Resistance Unbalance | $\leq 4 \%$ |
| Max Mutual Capacitance | 5.6 nF/100m |

CATEGORY 6 F/UTP CROSSOVER PATCH CORD

MECHANICAL & TRANSMISSION DATA

| | | |
|-----------------------------|---------------------|----------------------------------|
| Tensile Strength (Mpa) | Before Aging ≥ 9 | After Aging 100°C*24h*7d ≥ 75 |
| Elongation (%) | ≥ 100 | ≥ 50 |
| Propagation Delay 1-250 MHz | ≤45 ns/100m | |
| Velocity of Propagation | 69% | |

ELECTRICAL PERFORMANCE DATA

| Freq. (MHz) | NEXT(dB) min. | | | RL(dB) min. |
|-------------|---------------|---------|----------|-------------|
| | 2m cord | 5m cord | 10m cord | |
| 1 | 68.0 | 68.0 | 68.0 | 20.0 |
| 4 | 65.0 | 65.0 | 65.0 | 21.8 |
| 10 | 64.8 | 64.2 | 62.8 | 22.5 |
| 20 | 60.9 | 58.6 | 57.2 | 23.4 |
| 30 | 56.2 | 54.9 | 53.6 | 23.0 |
| 60 | 50.4 | 49.2 | 48.1 | 20.0 |
| 100 | 46.4 | 45.3 | 44.4 | 18.0 |
| 125 | 44.5 | 43.5 | 42.7 | 17.0 |
| 150 | 43.2 | 42.2 | 41.1 | 16.2 |
| 200 | 40.8 | 39.6 | 39.1 | 15.0 |
| 250 | 38.8 | 37.9 | 37.6 | 13.8 |

ORDERING GUIDE

| Patch Cord | Category | Outer Jacket | Type | Length: LL | Jacket Colour: X |
|------------|----------|------------------|----------|-------------|---|
| 12Z | 3: CAT6 | 1:PVC 2: LSZH | 2: F/UTP | LL : Length | BK-Black BL-Blue GN-Green GY-Gray RD-Red WH-White YL-Yellow |

For Example:

Crossover Patch Cord

| | | | | | | |
|-----|---|---|---|---|---|---|
| 12Z | 3 | 2 | 2 | 0 | 1 | X |
|-----|---|---|---|---|---|---|

Description: Category 6 F/UTP - Crossover Patch Cord LSZH 01M - Colour