

CAT. 6 UTP 24AWG, 250MHz, LSZH

PGS-FL64-11ST341X1

STANDARD COMPLIANCE

UL LISTED: UL 444

ANSI/TIA-568-C.2 CATEGORY 6 PATCH CABLE

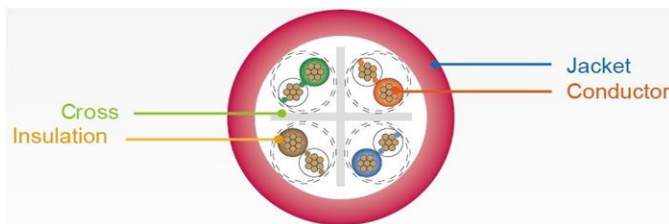


IEC60332-1-2 FLAME TEST

RoHS COMPLIANCE FOR THE REQUIREMENT OF EUROPEAN UNION ISSUED DIRECTIVE 2011/65/EU

UL VERIFIED TO IEC 62821-1 LSHF (Low-Smoke-Halogen-Free) JACKET

SECTION PLAN



CONSTRUCTION

| | | CAT. 6 UTP STRANDED |
|------------|-------------------------|--|
| CONDUCTOR | MATERIAL & SIZE | BARE COPPER |
| | GAUGE | 24AWG |
| INSULATION | MATERIAL | HDPE (CMI-75E) |
| | THICKNESS | MIN. AVERAGE THICKNESS: 0.201mm MIN. THICKNESS: 0.175mm |
| | COLOR CODE | Pair 1: Blue & White/Bule Pair 3: Green & White/Green Pair 2: Orange & white/Orange Pair 4: Brown & White/Brown |
| | DIAMETER | 1.0 +/- 0.03mm |
| | TENSILE STRENGTH | 16.5 Mpa/2400 PSI |
| | ULTIMATE ELONGATION | ≥ 300% |
| JACKET | MATERIAL | CMX-LSHF Compound |
| | THICKNESS | MIN. AVERAGE THICKNESS: 0.585mm MIN. THICKNESS: 0.485mm |
| | OVERALL DIAMETER | 6.3mm +/- 0.3mm |
| | MINIMUM BENDING RADIUS | ≥ 4 TIMES OF OVERALL DIAMETER |
| | MAXIMUM PULLING TENSION | MAX. 110N |
| | TENSILE STRENGTH | 8.3 Mpa / 1200 PSI |
| | ULTIMATE ELONGATION | ≥ 100% |

ELECTRIC REQUIREMENT

| | | CAT. 6 UTP STRANDED |
|--|--|-----------------------|
| CHARACYTERISTIC IMPEDENCE (Zo) | | 85 ~ 115Ω (1~250MHz) |
| DC. RESISTANCE CAPACITANCE UNBALANCE | | 5% |
| PAIR-TO-GROUND CAPACITANCE UNBALANCE | | 330 pF/100M MAX. |
| CONDUCTOR RESISTANCE | | 8.76Ω /100M 20°C MAX. |
| MUTUAL CAPACITANCE | | 5600 pF/100M MAX. |
| SPARK TEST | | 2.5KV |
| NOMINAL VELOCITY OF PROPAGATION (N.V.P.) | | 69% |

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ENVIRONMENTAL CONDITION & USAGE

| | | |
|-------------------|--------------------|----------------|
| TEMPERATURE RANGE | SHIPPING & STORAGE | - 20°C to 75°C |
| | INSTALLATION | 0°C to 50°C |
| | OPERATION | - 10°C to 60°C |

TRANSMISSION REQUIREMENTS

| FREQUENCY (MHz) | MAX. ATTENUATION (dB/100m) | MIN. Pr-Pr NEXT (dB) | PS NEXT | RETURN LOSS | Pr-Pr-ELFEXT | PS ELFEXT |
|-----------------|----------------------------|----------------------|---------|-------------|--------------|-----------|
| 1 | 2.4 | 74.3 | 72.3 | 20.0 | 67.8 | 64.8 |
| 10 | 7.1 | 59.3 | 57.3 | 25.0 | 47.8 | 44.8 |
| 20 | 10.2 | 54.8 | 52.8 | 25.0 | 41.8 | 38.8 |
| 31.25 | 12.8 | 51.9 | 49.9 | 23.3 | 37.9 | 34.9 |
| 62.5 | 18.5 | 47.4 | 45.4 | 20.7 | 31.9 | 28.9 |
| 100 | 23.8 | 44.3 | 42.3 | 19.0 | 27.8 | 24.8 |
| 200 | 34.8 | 39.8 | 37.8 | 16.4 | 21.8 | 18.8 |
| 250 | 39.4 | 38.3 | 36.3 | 15.6 | 19.8 | 16.8 |

Values show on tables above are for reference purpose only.

MARKING & PACKAGING

| | | |
|---------------------|--|--------|
| PACKAGING | FT/BOX | FT/BOX |
| APPROX.WEIGHT (kg) | | |
| DIMENSION (mm) | | |
| PACKAGES per PALLET | | |
| MARKING | PGS-FL64-11ST341X1 TYPE CMX-LSHF 4PR 24AWG 75°C (UL) E495789 P ETL VERIFIED to ANSI/TIA-568-C.2 UTP CAT.6 STRANDED PT pactech BATCH NO. RoHS | |