

CAT. 6 UTP 28AWG, 250MHz, LSZH, RIBBON X 4

PGS-FL68-14SD342X1

STANDARD COMPLIANCE

ANSI/TIA-568-C.2 CATEGORY 6: HORIZONTAL CABLE

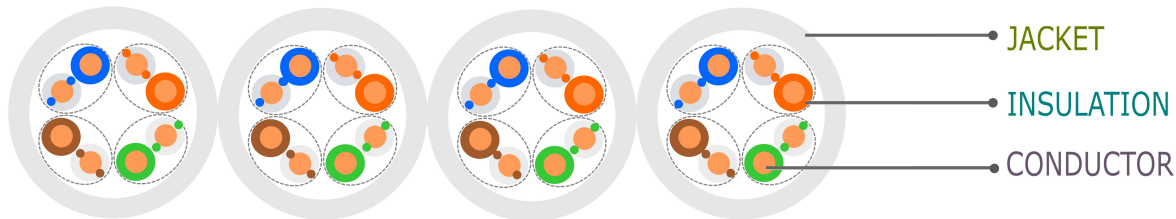
IEC 61156-5 FOR HORIZONTAL CABLE

IEC60332-1-2 FLAME TEST

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



SECTION PLANS



CONSTRUCTION

| | | CAT. 6 UTP SOLID |
|------------|-------------------------|--|
| CONDUCTOR | MATERIAL & SIZE | BARE COPPER, 28AWG |
| | DIAMETER | 1/0.32mm +/-0.003mm |
| INSULATION | MATERIAL | HDPE(CMI-75E) |
| | THICKNESS | MIN. AVERAGE THICKNESS: 0.13mm MIN.THICKNESS: 0.10mm |
| | COLOR CODE | Pair 1: Blue & White/Blue Pair 3: Green & White/Green Pair 2: Orange & White/Orange Pair 4: Brown & White/Brown |
| | DIAMETER | 0.55 +/-0.03mm |
| | TENSILE STRENGTH | 16.5 MPa / 2400 PSI |
| | ULTIMATE ELONGATION | ≥300% |
| | JACKET | MATERIAL |
| | THICKNESS | MIN. AVERAGE THICKNESS: 0.585mm MIN.THICKNESS: 0.485mm |
| | OVERALL DIAMETER | 3.8mm +/-0.3mm X 4C |
| | MINIMUM BENDING RADIUS | ≥ 8 TIMES OF OVERALL DIAMETER |
| | MAXIMUM PULLING TENSION | MAX. 85N |
| | TENSILE STRENGTH | 8.3MPa / 1200 PSI |
| | ULTIMATE ELONGATION | ≥100% |

ELECTRIC REQUIREMENT

| | CAT. 6 UTP SOLID |
|--|-----------------------|
| CHARACTERISTIC IMPEDENCE(Zo) | 85~115Ω (1~250MHz) |
| DC. RESISTANCE CAPACITANCE UNBALANCE | 5% |
| PAIR-TO-GROUND CAPACITANCE UNBALANCE | 330 pF/100M MAX. |
| CONDUCTOR RESISTANCE | 23.6Ω/ 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) | MIN. PSNEXT (dB) | MIN. RETURN LOSS (dB) |
|--------------------|-------------------------------|-------------------------|---------------------|--------------------------|
| 1 | 4.0 | 74.3 | 72.3 | 20.0 |
| 10 | 12.0 | 59.3 | 57.3 | 25.0 |
| 20 | 19.5 | 54.8 | 52.8 | 25.0 |
| 31.25 | 26.7 | 51.9 | 49.9 | 23.6 |
| 62.5 | 32.4 | 47.4 | 45.4 | 21.5 |
| 100 | 45.8 | 44.3 | 42.3 | 20.1 |
| 200 | 50.0 | 39.8 | 37.8 | 18 |
| 250 | 60.8 | 38.3 | 36.3 | 17.3 |

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 | 4PR 28AWG 75°C ANSI/TIA-568-C.2 UTP Cat.6 LSZH <i>PT</i> pactech FlexLite Ribbon PGS-FL68-14SD342X1 SOLID BATCH NO. RoHS 328FT...2FT | |