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| PRODUCT DATA SHEET FOR CAT 6A BLACK SFTP UV PE | | | |
| Type | OUTDOOR S/FTP CAT6A 4\*2\*23AWG LDPE | | |
| **Application** | | | |
| Suitable for structured premises cabling | | | |
| For transmission of digital and analogue voice and data signals. | | | |
| Especially suitable for all Class EA applications. | | | |
| ISDN,Ethernet 10 Base-T,Fast Ethernet 100 Base-T,Gigabit Ethernet 1000Base-T ,10G Base-T.(IEEE 802.3) | | | |
| Token Ring4/16Mbit/s,TP-PMD/TP/DDI 125Mbit/s,ATM 155Mbit/s.(IEEE 802.5 ) | | | |
| **Standard** | | | |
| IEC 61156-5 | | | |
| ANSI/TIA-568.2-D | | | |
| ISO/IEC 11801 | | | |
| **Construction** | | | |
| Conductors | Material | ---------- | Solid Bare Copper |
| Conductors Size | mm | 0.56+/-0.01 |
| Insulation | Material | ---------- | PE(Skin-Foam-Skin) |
| Diameter | mm | 1.32+/-0.05 |
| Average Thickness | mm | 0.38+/-0.05 |
| Cabling | Direction | ---------- | S |
| No. of Insulation | Pair | 4 |
| Shielding | Material | ---------- | Al-Foil Screened |
| Drain wire | Material | ---------- | 26AWG TC |
| Braid | Material | ---------- | 16\*4\*0.12ALM |
| Jacket | Material | ---------- | LDPE |
| Diameter | mm | 7.6+/-0.3 |
| Average Thickness | mm | 0.60+/-0.1 |
| Flame Rate | ---------- | ---------- |

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| **Electrical characteristics** | | | | | | | | |
| 1.Impedance | 4 - 100MHz 100±15 (ohms) 5.Transfer Impendance | | | | | Max100 mohms/m@100MHz | | |
|  | 100 - 200MHz 100±22 (ohms) 6 Coupling Attenuation | | | | | 70 dB | | |
|  | 200 - 500MHz 100±32 (ohms) 7.Installation temperature | | | | | 0~50℃ | | |
| 2.Max. Conductor DC Resistance 20℃ 93.8(ohms/km) 8.Operation temperature | | | | | | -20~60℃ | | |
| 3.Resistance unbalance (%) Max 5 | | | | | | | | |
| 4.Pair-to-Ground Capacitance Unbalance ≤330 (pF/100m) | | | | | | | | |
| **Nominal Transmission Characteristics** | | | | | | | | |
| Frequence | Min.  RL | Max.  IL | Max.  PD | Max.  SKEW | Min.  NEXT | Min.  PSNEXT | Min.  ACR-F | Min.  PSACR-F |
| (MHz) | (dB/100M) | (dB/100M) | (ns/100M) | (ns/100M) | (dB/100M) | (dB/100M) | (dB/100M) | (dB/100M) |
| 1 | 20.0 | 2.1 | 570 | 45 | 74.3 | 72.3 | 67.8 | 64.8 |
| 4 | 23.0 | 3.8 | 552 | 45 | 65.3 | 63.3 | 55.8 | 52.8 |
| 10 | 25.0 | 5.3 | 545 | 45 | 59.3 | 57.3 | 47.8 | 44.8 |
| 16 | 25.0 | 7.5 | 543 | 45 | 56.2 | 54.2 | 43.7 | 40.7 |
| 20 | 25.0 | 8.4 | 542 | 45 | 54.8 | 52.8 | 41.8 | 38.8 |
| 31.25 | 23.6 | 10.5 | 540 | 45 | 51.9 | 49.9 | 37.9 | 34.9 |
| 62.5 | 21.5 | 15.0 | 539 | 45 | 47.4 | 45.4 | 31.9 | 28.9 |
| 100 | 20.1 | 19.1 | 538 | 45 | 44.3 | 42.3 | 27.8 | 24.8 |
| 200 | 18.0 | 27.6 | 537 | 45 | 39.8 | 37.8 | 21.8 | 18.8 |
| 300 | 17.3 | 34.3 | 536 | 45 | 37.1 | 35.1 | 18.3 | 15.3 |
| 400 | 17.3 | 40.1 | 536 | 45 | 35.3 | 33.3 | 15.8 | 12.8 |
| 500 | 17.3 | 45.3 | 536 | 45 | 33.8 | 31.8 | 13.8 | 10.8 |
| **construction:**  CONDUCTOR  INSULATION (SKIN-FOAM-SKIN)  P1 P4  Drain Wire  AL-MYLAR FOIL  P2 P3 BRAID RIPCORD(OPTIONAL)  JACKET | | | | | | **core:**  P1:White/Blue-Blue P2:White/Orange-Orange P3:White/Green-Green P4:White/Brown-Brown | | |
| **Note: The above transmission performance for the 100M, 20 ± 2 ℃ under the conditions tested** | | | | | | | | |