

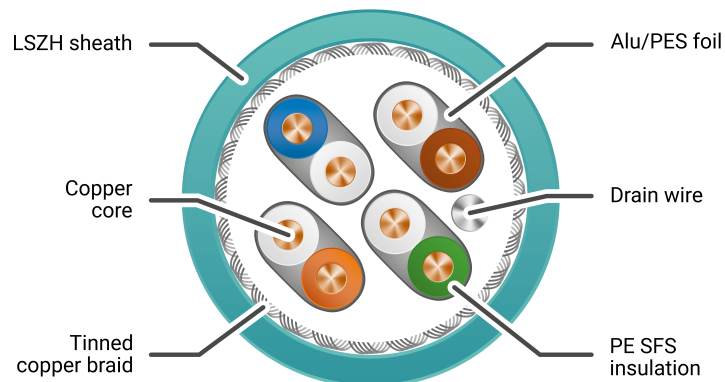
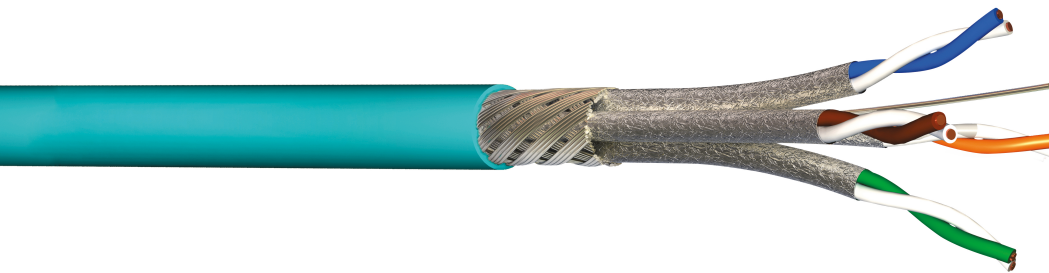
SF20004SH5

CAT8 S/FTP 1x4P LSZH Dca cable Drum of 500m



DESCRIPTION

Ideal CAT8 cable for highly disturbed environments such as data centers where the number of high frequency transmissions is important. Offers 2000MHz bandwidth and 40Gbps throughput. 100% tested with a network analyzer using non-balun technology that ensures CAT8 performance in accordance with IEC 60656-9.



ADVANTAGES

- Performances up to 2000MHz
- Rate up to 40Gbps ideal for Data center applications
- Very high electromagnetic immunity



CONSTRUCTION & TECHNICAL PERFORMANCE

| | |
|--|--|
| Product Type | SF2000xSHyyyyyz |
| Core gauge | AWG23 |
| Assembly type | Pairs |
| Shielding description | Tinned copper braid |
| Outer Sheath Material | LSZH |
| Color | Turquoise RAL 6027 |
| Nom. diameter of the outer sheath (mm) | 820 |
| Ground drain presence | No |
| Shielding type | S/FTP |
| Insulation Color Code | Bleu/Blanc-Bleu - Orange/Blanc-orange - Vert/Blanc-Vert - Marron/Blanc-Marron |
| Nominal insulation diameter (mm) | 1,47 |

ELECTRICAL CHARACTERISTICS

| | |
|--|-----------------------------------|
| Loop resistance | 130 |
| Minimum insulation resistance | resistance_isolement_min_sup_5000 |
| Service Voltage (V) | <250Vdc |
| Linear electrical resistance (Ω /Km) | 95 |
| Mutual Capacity | < 45 pF |
| Capacity Imbalance | < 1200 pF/km |

TRANSMISSION CHARACTERISTICS

| | |
|---------------------------------|-----------------------|
| Coupling attenuation (dB) | 80 |
| Delay skew | <45 |
| Unbalance resistance | <2 |
| Propagation speed (%) | 75 |
| Segregation Class | D |
| Performance Category | Category 8 |
| Data Transmission Standard | ISO 11801 Ed3 Class I |
| Characteristic Impedance (Ohms) | 100 |
| Conductor/Shield Capacitance | 1,6 nF/km |
| Conductor/Conductor Capacitance | 45 nF/km |

MECHANICAL CHARACTERISTICS

| | |
|---------------------------------------|------------|
| Bending Radius in Fixed Installation | 8 x Ø ext |
| Bending Radius in Mobile Installation | 15 x Ø ext |

ENVIRONMENTAL CHARACTERISTIC

| | |
|--------------------|------------------------------|
| CPR classification | Dca s2, d2, a2 |
| Fire behaviour | IEC 60332-1 |
| Smoke emission | IEC 61034-1 |
| Gas emission | IEC60754-2 |
| RoHS Compliance | Conforme à la directive RoHS |
| Component Standard | IEC 61156-9 Cat8.1 |

ADDITIONAL INFORMATION

| | |
|-------------------|--------------|
| Product Packaging | Drum of 500m |
| Weight (Kg) | 30 |

TRANSMISSION PERFORMANCE

| FREQUENCY (Mhz) | INSERTION LOSS (dB/100M) | | NEXT (dB/100M) | | PSNEXT (dB/100M) | | ACR-F (dB/100M) | | PSACR-F (dB/100M) | | RETURN LOSS (dB/100M) | |
|--------------------|-----------------------------|---------------|-------------------|---------------|---------------------|---------------|--------------------|---------------|----------------------|---------------|--------------------------|---------------|
| | Standard | Typical Value | Standard | Typical Value | Standard | Typical Value | Standard | Typical Value | Standard | Typical Value | Standard | Typical Value |
| 4 | -3,7 | -3,4 | -66,3 | -111,0 | -63,3 | -108,0 | -67,0 | -102,0 | -64,0 | -99,0 | -23,0 | -40,5 |
| 10 | -5,8 | -5,5 | -60,3 | -112,8 | -57,3 | -109,8 | -59,0 | -109,2 | -56,0 | -106,2 | -25,0 | -29,5 |
| 16 | -7,3 | -7,0 | -57,2 | -112,8 | -54,2 | -109,8 | -54,9 | -112,1 | -51,9 | -109,1 | -25,0 | -27,6 |
| 20 | -8,2 | -7,8 | -55,8 | -119,0 | -52,8 | -116,0 | -53,0 | -109,0 | -50,0 | -106,0 | -25,0 | -28,4 |
| 31,25 | -10,3 | -9,9 | -52,9 | -114,8 | -49,9 | -111,8 | -49,1 | -110,8 | -46,1 | -107,8 | -25,0 | -30,1 |
| 62,5 | -14,6 | -13,9 | -50,9 | -114,9 | -47,9 | -111,9 | -43,1 | -103,8 | -40,1 | -100,8 | -23,6 | -31,5 |
| 100 | -18,5 | -17,6 | -48,4 | -115,7 | -45,4 | -112,7 | -39,0 | -100,4 | -36,0 | -97,4 | -22,2 | -32,7 |
| 125 | -20,8 | -19,7 | -45,3 | -115,0 | -42,3 | -112,0 | -37,1 | -98,6 | -34,1 | -95,6 | -21,5 | -39,6 |
| 155 | -23,2 | -21,9 | -42,4 | -113,8 | -39,4 | -110,8 | -35,2 | -97,8 | -32,2 | -94,8 | -20,9 | -39,0 |
| 200 | -26,5 | -25,0 | -40,8 | -113,8 | -37,8 | -110,8 | -33,0 | -95,5 | -30,0 | -92,5 | -20,1 | -34,2 |
| 250 | -29,7 | -28,0 | -39,3 | -117,9 | -36,3 | -114,9 | -31,0 | -92,7 | -28,0 | -89,7 | -19,4 | -37,9 |
| 300 | -32,7 | -30,7 | -38,1 | -113,3 | -35,1 | -110,3 | -29,5 | -93,8 | -26,5 | -90,8 | -18,9 | -34,0 |
| 350 | -35,4 | -33,2 | -37,1 | -111,2 | -34,1 | -108,2 | -28,1 | -94,0 | -25,1 | -91,0 | -18,4 | -31,3 |
| 400 | -38,0 | -35,7 | -36,3 | -114,0 | -33,3 | -111,0 | -27,0 | -93,6 | -24,0 | -90,6 | -18,0 | -32,7 |
| 450 | -40,4 | -38,0 | -35,5 | -113,7 | -32,5 | -110,7 | -25,9 | -90,6 | -22,9 | -87,6 | -17,6 | -31,3 |
| 500 | -42,8 | -40,0 | -34,8 | -114,5 | -31,8 | -111,5 | -25,0 | -95,8 | -22,0 | -92,8 | -17,3 | -27,5 |
| 550 | -45,0 | -42,1 | -34,2 | -116,6 | -31,2 | -113,6 | -24,2 | -94,8 | -21,2 | -91,8 | -17,0 | -30,5 |
| 600 | -47,1 | -44,2 | -33,6 | -107,3 | -30,6 | -104,3 | -23,4 | -92,2 | -20,4 | -89,2 | -16,8 | -29,5 |
| 650 | -49,2 | -46,0 | -33,1 | -109,2 | -30,1 | -106,2 | -22,7 | -91,9 | -19,7 | -88,9 | -16,5 | -27,7 |
| 700 | -51,1 | -47,7 | -32,6 | -111,9 | -29,6 | -108,9 | -22,1 | -90,4 | -19,1 | -87,4 | -16,3 | -28,9 |
| 750 | -53,1 | -49,8 | -32,2 | -110,8 | -29,2 | -107,8 | -21,5 | -90,3 | -18,5 | -87,3 | -16,1 | -26,3 |
| 800 | -54,9 | -51,5 | -31,8 | -109,4 | -28,8 | -106,4 | -20,9 | -88,8 | -17,9 | -85,8 | -15,9 | -24,0 |
| 850 | -56,7 | -53,2 | -31,4 | -103,6 | -28,4 | -100,6 | -20,4 | -86,4 | -17,4 | -83,4 | -15,7 | -25,4 |
| 900 | -58,5 | -54,1 | -31,0 | -106,0 | -28,0 | -103,0 | -19,9 | -85,7 | -16,9 | -82,7 | -15,5 | -26,4 |
| 950 | -60,2 | -56,0 | -30,6 | -105,8 | -27,6 | -102,8 | -19,4 | -86,0 | -16,4 | -83,0 | -15,4 | -25,7 |
| 1000 | -61,9 | -57,7 | -30,3 | -109,1 | -27,3 | -106,1 | -19,0 | -86,9 | -16,0 | -83,9 | -15,2 | -24,3 |
| 1050 | -63,6 | -59,0 | -30,0 | -107,3 | -27,0 | -104,3 | -18,6 | -86,0 | -15,6 | -83,0 | -15,1 | -26,4 |
| 1100 | -65,2 | -60,3 | -29,7 | -104,8 | -26,7 | -101,8 | -18,2 | -86,1 | -15,2 | -83,1 | -14,9 | -29,2 |
| 1150 | -66,8 | -61,3 | -29,4 | -102,6 | -26,4 | -99,6 | -17,8 | -85,7 | -14,8 | -82,7 | -14,8 | -26,4 |
| 1200 | -68,4 | -62,6 | -29,1 | -99,3 | -26,1 | -96,3 | -17,4 | -85,4 | -14,4 | -82,4 | -14,7 | -27,8 |
| 1250 | -69,9 | -65,8 | -28,8 | -99,2 | -25,8 | -96,2 | -17,1 | -85,0 | -14,1 | -82,0 | -14,5 | -26,8 |
| 1300 | -71,4 | -68,0 | -28,6 | -100,7 | -25,6 | -97,7 | -16,7 | -82,8 | -13,7 | -79,8 | -14,4 | -23,5 |
| 1400 | -74,4 | -70,8 | -28,1 | -98,3 | -25,1 | -95,3 | -16,1 | -82,5 | -13,1 | -79,5 | -14,2 | -19,9 |
| 1500 | -77,2 | -73,2 | -27,7 | -94,5 | -24,7 | -91,5 | -15,5 | -83,8 | -12,5 | -80,8 | -14,0 | -20,0 |
| 1600 | -80,0 | -73,7 | -27,2 | -97,2 | -24,2 | -94,2 | -14,9 | -83,3 | -11,9 | -80,3 | -13,8 | -18,3 |
| 1700 | -82,7 | -78,2 | -26,8 | -91,4 | -23,8 | -88,4 | -14,4 | -76,6 | -11,4 | -73,6 | -13,6 | -18,6 |
| 1800 | -85,4 | -80,0 | -26,5 | -95,2 | -23,5 | -92,2 | -13,9 | -72,7 | -10,9 | -69,7 | -13,4 | -17,2 |
| 2000 | -90,5 | -81,8 | -25,8 | -87,9 | -22,8 | -84,9 | -13,0 | -75,1 | -10,0 | -72,1 | -13,1 | -16,7 |

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