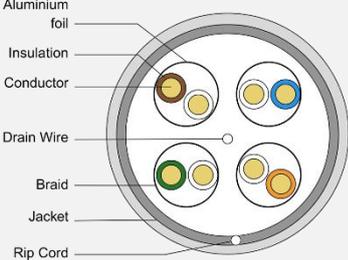


## SCHNELL CAT6 S/FTP 23 AWG 4 PAIR CABLE

Schnell Cat6 S/FTP 23 AWG 4-pair cable is engineered for high-speed network environments. Each twisted pair is individually foil-shielded and wrapped in overall braid to ensure superior EMC and minimal alien crosstalk. Rated up to 500 MHz for 10G Ethernet, it features LSZH jacket for safety and durability in indoor/outdoor deployments.



### DIAGRAM & CONSTRUCTION

|                |  |  |                |  |
|----------------|--|--|----------------|--|
| Conductor      | : 23 AWG solid bare copper<br>(0.58 mm ±0.005) |  | Overall Shield | : Aluminum-magnesium braid over foil               |
| Pair Shielding | : Individual aluminum-mylar foil               |  | Insulation     | : PE + fire barrier layer                          |
| Drain Wire     | : Tinned copper                                |  | Outer Jacket   | : LSZH (meets IEC 60332-1, IEC 60754, IEC 61034-2) |
|                |  |  | Cable Diameter | : ~12.5 mm ±0.4 mm                                 |

### ELECTRICAL CHARACTERISTICS

|                            |   |
|----------------------------|---|
| Frequency Range            | : Up to 500 MHz                               |
| Supported Applications     | : 10GBASE-T, 1000BASE-T, PoE/PoE+             |
| Impedance                  | : 100 ± 15 Ω @ 1–250 MHz                      |
| DC Conductor Resistance    | : ≤ 73.2 Ω/km @ 20°C                          |
| Pair-to-Ground Capacitance | : ≤ 330 pF/100 mMin 5000 mega ohms-km at 20°C |

### PHYSICAL CHARACTERISTICS

|                              |                                 |
|------------------------------|---------------------------------|
| Conductor Size               | : 23 AWG solid bare copper      |
| Cable Diameter               | : 12.5 mm ± 0.4 mm              |
| Shielding                    | : Individual foil + braid       |
| Outer Jacket Material        | : LSZH (Low Smoke Zero Halogen) |
| Minimum Bend Radius (Loaded) | : 8 × OD                        |

### KEY FEATURES

- S/FTP design with individual foil shields + braided screen
- High bandwidth up to 500 MHz for 10G Ethernet
- LSZH jacket for low smoke and halogen-free safety
- Solid 23 AWG copper conductors for performance and reliability

### KEY APPLICATIONS

- Data centers and 10G backbone networks
- High-density patch panels and switch interconnects
- EMI-sensitive environments (industrial, labs)
- Structured cabling in commercial buildings

### REACTION TO FIRE

|                  |                                 |
|------------------|---------------------------------|
| Flame Retardance | : IEC 60332-1                   |
| Smoke Emission   | : IEC 61034-2                   |
| Halogen Acidity  | : IEC 60754-1/2                 |
| Jacket Type      | : LSZH (Low Smoke Zero Halogen) |

### STANDARDS

- ANSI/TIA-568-C.2, ISO/IEC 11801 EA, EN 50173
- IEC 61156-5, IEC 60228, UL certifications
- RoHS and Reach compliant

**TRANSMISSION PERFORMANCE**

| Freq (MHZ) | Attenuation (dB/100m) | NEXT (dB) | PSNEXT (dB) | ACRF (ELFEXT)(dB) | PSACRF [PSELFEXT] (dB) | Return Loss (dB) |
|------------|-----------------------|-----------|-------------|-------------------|------------------------|------------------|
|            | Max.                  | Min.      | Min.        | Min.              | Min.                   | Min.             |
| 1          | 2.3                   | 65        | 62          | 63.3              | 60.3                   | 19               |
| 4          | 4.2                   | 63        | 60.5        | 51.2              | 48.2                   | 19               |
| 8          | 5.8                   | 58.2      | 55.6        | 45.2              | 42.2                   | 19               |
| 10         | 6.5                   | 56.6      | 54          | 43.3              | 40.3                   | 19               |
| 16         | 8.2                   | 53.2      | 50.6        | 39.2              | 36.2                   | 18               |
| 20         | 9.2                   | 51.6      | 49          | 37.2              | 34.2                   | 17.5             |
| 25         | 10.2                  | 50        | 47.3        | 35.3              | 32.3                   | 17               |
| 31.25      | 11.5                  | 48.4      | 45.7        | 33.4              | 30.4                   | 16.5             |
| 62.5       | 16.4                  | 43.4      | 40.6        | 27.3              | 24.3                   | 14               |
| 100        | 20.9                  | 39.9      | 37.1        | 23.3              | 20.3                   | 12               |
| 200        | 30.1                  | 34.8      | 31.9        | 17.2              | 14.2                   | 9                |
| 250        | 33.9                  | 33.1      | 30.2        | 15.3              | 12.3                   | 8                |
| 300        | 37.4                  | 31.7      | 28.8        | 13.7              | 10.7                   | 7.2              |
| 400        | 43.7                  | 28.7      | 25.8        | 11.2              | 8.2                    | 6                |
| 500        | 49.3                  | 26.1      | 23.2        | 9.3               | 6.3                    | 6                |

**PACKING INFORMATION**

| Part Number       | Packing Mode     | Roll Length | N.W (kg) | G.W (kg) | Dimension (mm) |
|-------------------|------------------|-------------|----------|----------|----------------|
| SCZ-5010C623SGY   | Plywood Reel/Ctn | 305 Mtr     | 17.1     | 18.7     | 420 x420x 260  |
| SCZ-5010C623SLSGY | Plywood Reel/Ctn | 305 Mtr     | 17.1     | 18.7     | 420 x420x 260  |

**PART NUMBER**

| Part Number       | Description                                 |
|-------------------|---|
| SCZ-5010C623SGY   | SCHNELL CAT6 S/FTP 23 AWG 4 PAIR CABLE PVC  |
| SCZ-5010C623SLSGY | SCHNELL CAT6 S/FTP 23 AWG 4 PAIR CABLE LSZH |