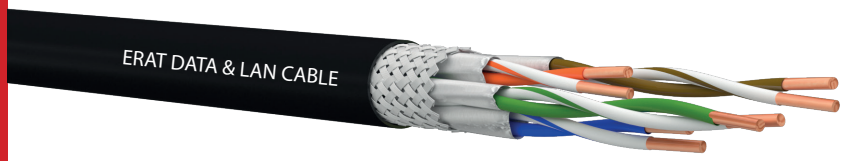
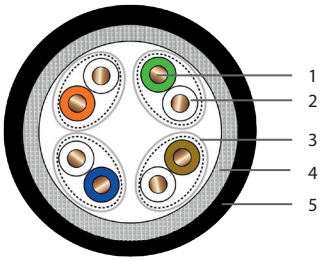
CAT 6 S-FTP 23 AWG OUTDOOR DATA CABLE





AREAS OF USE / FEATURES

ERAT CAT 6 outdoor cables, featuring UV-resistant black PE outer jackets, are suitable for demanding external applications. They are used for transmitting digital and analog audio, data, video, and PoE signals.

ERAT CAT 6 S/FTP cables are designed to transmit data at speeds of 1 Gbps with a bandwidth of 250 MHz. Outer jackets can be manufactured using HFFR or other specifications based on customer requirements.

- 1000BASE-TX Gigabit Ethernet
- 1000BASE-T Gigabit Ethernet
- ATM 155 / ATM 25
- 100BASE-T "Fast Ethernet"
- 100BASE-T2/ 100BASE-T4
- 100BASE-TX
- 10BASE-T Ethernet
- ISDN, TPDDI, TP-PMD
- Power Over Ethernet (PoE)

CABLE CONSTRUCTION

1. Copper Conductor
2. PE Isolated
3. Aluminum Foil
4. Tinned Copper Braid
5. Outer Sheath

PHYSICAL PROPERTIES	
Conductor	Pure, annealed copper
Conductor Diameter	23 AWG
Isolated	Polyolefin
Number of Isolates	8, in 4 twisted pairs
Copper Braid	Tinned Copper Braid
Individual Pair Shield	Laminated aluminum foil providing 100% coverage (foil side facing outwards)
Outer Sheath	UV-resistant and weather-resistant PE compound suitable for outdoor installation.
Jacket Color	Black. (Different colors can be produced upon customer request.)
Performance Guarantee	A 25-year system performance guarantee is offered when end-to-end ERAT-branded products are used.
Cable Labeling Information	Brand, Cable type, Relevant standards, Date, Serial number, Meters
MECHANICAL AND ENVIRONMENTAL PROPERTIES	
Tensile Force	60 N / mm ^{2} max
Bending Radius (Short-Term)	4 x Cable Diameter
Bending Radius (Long-Term)	8 x Cable Diameter
Operating Temperature	-40 to +80 °C
Installation Temperature	-10 to +60 °C
Storage Temperature	-40 to +80 °C

CAT 6 S-FTP 23 AWG OUTDOOR DATA CABLE

PACKAGING, DIMENSIONS & WEIGHT		
Packaging Type	**Outer Diameter (mm)**	**Approximate Weight (kg)**
500 m Plywood Reel	7.2±0.3	22.5
1000 m Plywood Reel	7.2±0.3	45.0

ELECTRICAL PROPERTIES	
Impedance Characteristic	100±6 Ohm @ 1-250 MHz
DC Resistance	90 Ohm/km max.
Resistance Imbalance	2% max.
Effective Capacity	45 pF/m nom. @ 1 KHz
Capacitance Imbalance (to Ground)	1600 pF/km max. @ 1 KHz.
Voltage	72 Vdc max.
Dielectric Strength	1.7 kV AC / 2 seconds
Signal Speed (NVP)	Min. %67 - 69
Signal Transmission Time (Propagation Delay)	534 + 36/$f^{½}$nS/100m max @ 1-250 MHz
Inter-lane Signal Skew	45 nS/100m max @ 1-250 MHz
Insulation Resistance	5000 MegaOhm•km min. @ 500 Vdc
Joint Attenuation	55 dB min @ 30-100 MHz 55-20Log(f/100) @100-250 MHz

Frequency (MHz)	Return Loss (dB)	İnsertion Loss (dB)	NEXT Loss (dB)	PS NEXT Loss (dB)	ACRF (dB)
	Min.	**Max.**	**Min.**	**Min.**	**Min.**
1.00	19.1	1.9	65.0	62.0	64.2
4.00	21.0	3.5	64.1	61.8	52.1
8.00	21.0	5.0	59.4	57.0	46.1
10.00	21.0	5.5	57.8	55.5	44.2
16.00	20.0	7.0	54.6	52.2	40.1
20.00	19.5	7.9	53.1	50.7	38.2
25.00	19.0	8.9	51.5	49.1	36.2
31.25	18.5	10.0	50.0	47.5	34.3
62.50	16.0	14.4	45.1	42.7	28.3
100.00	14.0	18.6	41.8	39.3	24.2
200.00	11.0	27.4	36.9	34.3	18.2
250.00	10.0	31.1	35.3	32.7	16.2

ISOLATED COLORS

Blue | White | Orange | White | Yellow | White | Brown | White