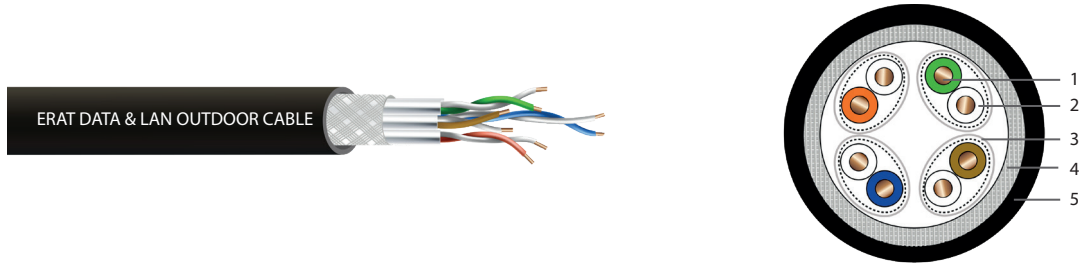


CAT 7 S-FTP 23 AWG 1000 MHZ OUTDOOR DATA CABLE



WHERE IT IS USED/ FEATURES		CABLE STRUCTURE
ERAT CAT 7 Outdoor UV resistant, black PE Outer Jacket cables are suitable for harsh conditions for external applications. Used to carry digital, analog voice, data, video and POE signals. ERAT CAT 7 S/FTP cables are a type of cable that carries data at a speed of 10000 Megabits 1000 MHz. HFFR or different Outer Jacket productions are made according to customer demand. • 10000BASE-TX Gigabit Ethernet • 10000BASE-T Gigabit Ethernet • 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)		1. Copper Conductor 2. PE Insulation 3. Aluminium Foil 4. Tinned Copper Braid 5. Outer Jacket
PHYSICAL PROPERTIES		
Conductive	Solid, annealed copper	
Conductor Diameter	23 AWG	
Insulation	Polyolefin	
Number of Insulated Conductors	8, twisted in 4 pairs	
Overall Inner Shield	Laminated aluminum foil providing 100% coverage (the foil face is turned outwards)	
Overall Outer Shield	Tinned Copper Braid	
Outer Jacket	Resistant to outdoor conditions, fully compatible with PE Th and UV conditions	
Jacket Color	Black. (Different colors can be produced according to customer demand.)	
Cable information the text	Brand, Type of cable, Relevant standards, Date, Serial number, Meter	
MECHANICAL AND ENVIRONMENTAL PROPERTIES		
Pulling 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	

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PACKAGING & SIZE & WEIGHT		
Packaging Type	Outer Diameter (mm)	Approximate Weight (kg)
500 m Plywood Reel	7.4±0.3	26.3
1000 m Plywood Reel	7.4±0.3	52.2

ELECTRICAL SPECIFICATIONS	
Characteristic Impedance	100±6 Ohm @ 1-1000 MHz
DC Resistance	76 Ohm/km max.
Resistance Unbalance	2% max.
Capacitance	45 pF/m nom. @ 1 KHz
Capacity Imbalance (Wire to ground)	1600 pF/km max. @ 1 KHz.
Voltage	72 Vdc max.
Dielectric Strength	1500 Volt / 1 dakika min. rms
Velocity of Propagation (NVP)	Min. %77 - 80
The Signal Transmission Time (Prop. Delay)	534 + 36/f ^{0.5} @ 1-1000 MHz
Propagation Delay Skew	25 nS/100m max @ 1-1000 MHz
Insulation Resistance	5000 MegaOhm·km min. @ 500 Vdc
Coupling attenuation	55 dB min @ 30-100 MHz 55-20Log(f/100) @100-1000 MHz
Transfer Impedance	10 mOhm/m max @ 1-30 MHz 30 MOhm/m max @ 30-100 MHz

Frequency (MHz)	Return Loss (dB)	Insertion Loss (dB/100m)	NEXT Loss (dB)	PS NEXT Loss (dB)	PS ELFEXT (dB/100m)
1	20,0	2,0	78,0	75,0	-
4	23,0	3,7	78,0	75,0	75,0
8	24,5	5,2	78,0	75,0	72,9
10	25,0	5,9	78,0	75,0	71,0
16	25,0	7,4	78,0	75,0	66,9
20	25,0	8,3	78,0	75,0	65,0
25	24,3	9,3	78,0	75,0	63,0
31,25	23,6	10,4	78,0	75,0	61,1
62,5	21,5	14,9	75,5	72,5	55,1
100	20,1	19,0	72,4	69,4	51,0
200	18,0	27,5	67,9	64,9	45,0
250	17,3	31,0	66,4	63,4	43,0
300	17,3	34,2	65,2	62,2	41,5
400	17,3	40,0	63,4	60,4	39,0
500	17,3	45,3	61,9	58,9	37,0
600	17,3	50,1	60,7	57,7	35,4
700	17,3	54,6	59,7	56,7	34,1
800	17,3	58,9	58,9	55,9	32,9
1000	17,3	66,9	57,4	54,4	31,0

Values above 600 MHz are for reference

INSULATION COLORS							
							
Blue	White	Orange	White	Green	White	Brown	White