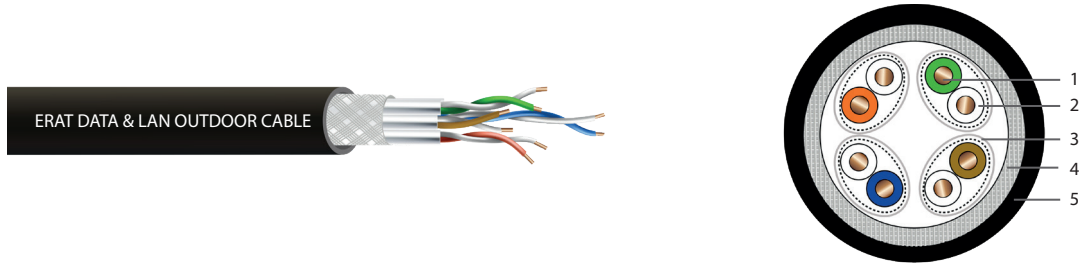


CAT 7A S-FTP 22 AWG 1000 MHZ OUTDOOR DATA CABLE



WHERE IT IS USED/ FEATURES		CABLE STRUCTURE
ERAT CAT 7A 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 7A 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	22 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		7.9±0.3		28.3			
1000 m Plywood Reel		7.9±0.3		56.2			
ELECTRICAL SPECIFICATIONS							
Characteristic Impedance		100±6 Ohm @ 1-1000 MHz					
DC Resistance		70 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 ^{1/2} nS/100m max. @ 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	2,1	78,0	75,0	-		
4	23,0	3,7	78,0	75,0	75,0		
8	24,5	5,2	78,0	75,0	74,2		
10	25,0	5,8	78,0	75,0	72,3		
16	25,0	7,3	78,0	75,0	68,2		
20	25,0	8,2	78,0	75,0	66,3		
25	24,3	9,2	78,0	75,0	64,3		
31,25	23,6	10,3	78,0	75,0	62,4		
62,5	21,5	14,6	78,0	75,0	56,4		
100	20,1	18,5	75,4	72,4	52,3		
200	18,0	26,5	70,9	67,9	46,3		
250	17,3	29,7	69,4	66,4	44,3		
300	17,3	32,7	68,2	65,2	42,8		
400	17,3	38,0	66,4	63,4	40,3		
500	17,3	42,8	64,9	61,9	38,3		
600	17,3	47,1	63,7	60,7	36,7		
1000	17,3	61,9	60,4	57,4	32,3		
800	17,3	58,9	58,9	55,9	32,9		
1000	17,3	66,9	57,4	54,4	31,0		
INSULATION COLORS							
							
Blue	White	Orange	White	Green	White	Brown	White