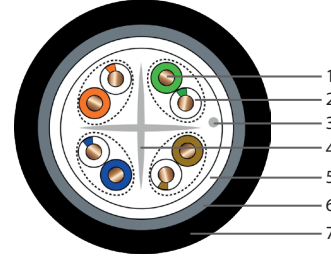


CAT 6A F-UTP 23 AWG OUTDOOR DATA CABLE



WHERE IT IS USED/ FEATURES		CABLE STRUCTURE
ERAT CAT 6A Outdoor UV resistant, black PE Outer Jacketed cables are suitable for harsh conditions for external applications. Used to carry digital, analog voice, data, video and POE signals. ERAT CAT 6A F/UTP cables are a type of cable that carries data at 10 Gbps/sec at 500 MHz. The cable is sheathed using a Separator to minimize the interaction of the pairs. HFFR or different specifications 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. Ground Wire 4. Separator 5. Polyester Tape 6. Aluminium Foil 7. Outer Jacket
PHYSICAL PROPERTIES		
Conductive	Solid, annealed copper	
Conductor Diameter	23 AWG	
Insulation	Polyolefin	
Number of Insulated Conductors	8, twisted in 4 pairs	
Ground Wire	Solid, tin-coated annealed copper	
Polyester Tape Wrap	Polyester Tape provides 100% coverage	
Overall Inner Shield	Laminated aluminum foil providing 100% coverage (foil face is introverted)	
Outer Jacket	Resistant to outdoor conditions, fully compatible with PE Th and UV conditions	
Jacket Color	Siyah (Müşteri talebine göre farklı renkler üretilebilmektedir.)	
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	25
1000 m Plywood Reel	7.4±0.3	50.2

ELECTRICAL SPECIFICATIONS

Characteristic Impedance	100±6 Ohm @ 1-500 MHz
DC Resistance	82 Ohm/km max.
Resistance Unbalance	2% max.
Capacitance	56 pF/m nom. @ 1 KHz
Capacity Imbalance (Wire to ground)	1600 pF/km max. @ 1 KHz.
Voltage	72 Vdc max.
Dielectric Strength	1.7 kV a.c. / 2 seconds
Velocity of Propagation (NVP)	Min. %78 - 80
Propagation Delay Skew	45 nS/100m max @ 1-500 MHz
Insulation Resistance	5000 MegaOhm·km min. @ 500 Vdc
Coupling attenuation	55 dB min @ 30-100 MHz 55-20Log(f/100) @100-500 MHz

Frequency (MHz)	Return Loss (dB)	Insertion 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	7.8	53.1	50.7	38.2
25.00	19.0	8.8	51.5	49.1	36.2
31.25	18.5	9.8	50.0	47.5	34.3
62.50	16.0	14.0	45.1	42.7	28.3
100.00	14.0	18.0	41.8	39.3	24.2
200.00	11.0	26.1	36.9	34.3	18.2
250.00	10.0	29.5	35.3	32.7	16.2
300.00	9.2	32.7	34.0	31.4	14.6
400.00	8.0	38.4	29.9	27.1	12.1
500.00	8.0	43.8	26.7	23.8	10.2

INSULATION COLORS

							
Blue	Blue/White	Orange	Orange /White	Green	Green /White	Brown	Brown/White