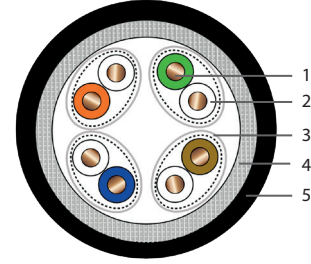


## CAT 7 S-TP 23 AWG 600 MHZ OUTDOOR DATA CABLE



WHERE IT IS USED/ FEATURES	CABLE STRUCTURE
<p>ERAT CAT 7 Dış Ortam (Outdoor) UV dayanıklı, siyah PE Outer Jacketlı kablolar, harici uygulamalar için ağır koşullara uygundur. Dijital, analog ses, veri, video ve POE sinyallerinin taşınmasında kullanılır.</p> <p>ERAT CAT 7 S/FTP kabloları, 10000 Megabit 600 MHz hızında veri taşıyan kablo türüdür. Müşteri talebine göre HFFR veya farklı özelliklerde Outer Jacket üretimleri yapılmaktadır.</p> <ul style="list-style-type: none"> <li>• 10000BASE-TX Gigabit Ethernet</li> <li>• 10000BASE-T Gigabit Ethernet</li> <li>• 1000BASE-TX Gigabit Ethernet</li> <li>• 1000BASE-T Gigabit Ethernet</li> <li>• ATM 155 / ATM 25</li> <li>• 100BASE-T "Fast Ethernet"</li> <li>• 100BASE-T2/ 100BASE-T4</li> <li>• 100BASE-TX</li> <li>• 10BASE-T Ethernet</li> <li>• ISDN, TPDDI, TP-PMD</li> <li>• Power Over Ethernet (PoE)</li> </ul>	<ol style="list-style-type: none"> <li>1. Copper Conductor</li> <li>2. PE Insulation</li> <li>3. Aluminium Foil</li> <li>4. Tinned Copper Braid</li> <li>5. Outer Jacket</li> </ol>

PHYSICAL PROPERTIES	
<b>Conductive</b>	Solid, annealed copper
<b>Conductor Diameter</b>	23 AWG
<b>Insulation</b>	Polyolefin
<b>Number of Insulated Conductors</b>	8, twisted in 4 pairs
<b>Overall Inner Shield</b>	Laminated aluminum foil providing 100% coverage (the foil face is turned outwards)
<b>Overall Outer Shield</b>	Tinned Copper Braid
<b>Outer Jacket</b>	Resistant to outdoor conditions, fully compatible with PE Th and UV conditions
<b>Jacket Color</b>	Black. (Different colors can be produced according to customer demand.)
<b>Cable information the text</b>	Brand, Type of cable, Relevant standards, Date, Serial number, Meter









MECHANICAL AND ENVIRONMENTAL PROPERTIES	
<b>Pulling Force</b>	60 N / mm <sup>2</sup> max
<b>Bending Radius (Short Term)</b>	4 x Cable Diameter
<b>Bending Radius (Long Term)</b>	8 x Cable Diameter
<b>Operating Temperature</b>	-40 to +80 °C
<b>Installation Temperature</b>	-10 to +60 °C
<b>Storage Temperature</b>	-40 to +80 °C

## CAT 7 S-FTP 23 AWG 600 MHZ OUTDOOR DATA CABLE

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 @ 1-600 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 <sup>0.5</sup> @ 1-600 MHz
Propagation Delay Skew	25 nS/100m max @ 1-600 MHz
Insulation Resistance	5000 MegaOhm·km min. @ 500 Vdc
Coupling attenuation	55 dB min @ 30-100 MHz 55-20Log(f/100) @100-600 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

ISOLATED COLORS							
							
Blue	White	Orange	White	Green	White	Brown	White