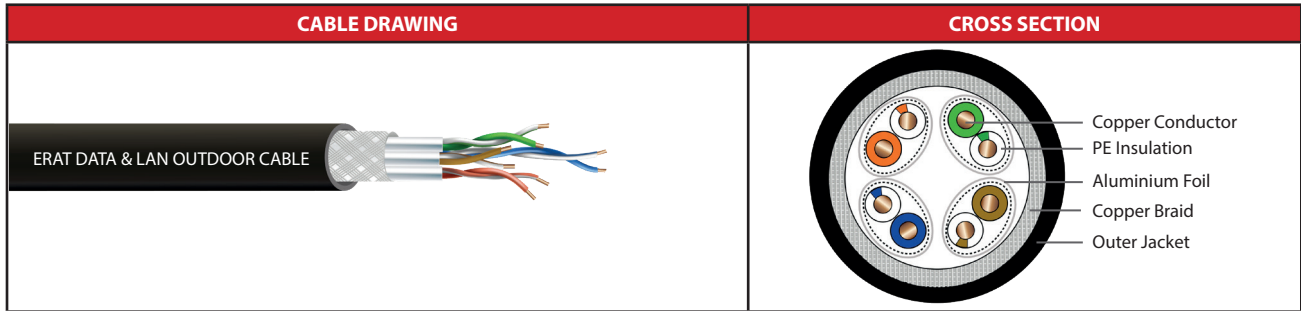


# CAT 7 S/FTP 23 AWG 600 MHz Outdoor Data Cable



MECHANICAL and PHYSICAL PROPERTIES			
<b>Basic Conductor</b>	Bare annealed copper	<b>Outer Jacket</b>	UV- Resistant PE
<b>Conductor Size</b>	23 AWG	<b>Jacket Color</b>	Black. Other colors available upon request.
<b>Insulation</b>	Polyolefin	<b>Surface Marking</b>	As a customer request
<b>Number of Insulated Conductors</b>	8, twisted in 4 pairs	<b>Pulling Force</b>	50 N/mm2 max.
<b>Color Code of Pairs</b>	Blue x White, Orange x White, Green x White, Brown x White	<b>Short Term Bend Radius</b>	8xOD mm
<b>Individual Pair Shield</b>	Laminated aluminium foil (foil face outward) providing 100% coverage.	<b>Long Term Bend Radius</b>	4xOD mm
<b>Overall Shield</b>	Braided tinned copper wire screen.	<b>Operating Temperature</b>	-20 to +60C

ELECTRICAL SPECIFICATIONS	
<b>Characteristic Impedance</b>	100±5 Ohm @ 1-600 MHz
<b>DC Resistance</b>	76 Ohm/Km max.
<b>Resistance unbalance</b>	2% max
<b>Capacitance</b>	45 pF/m nom. @ 1 KHz
<b>Cap. Unbalance (wire to ground)</b>	1500 pF/Km max. @ 1 KHz
<b>Voltage rating</b>	72 Vdc max
<b>Dielectric strength</b>	700 Volts/1 minute min rms
<b>Velocity of Propagation (NVP)</b>	77-80%
<b>Propagation delay</b>	500+36/f <sup>1/2</sup> @ 1-600 MHz.
<b>Propagation Delay Skew</b>	25 nS/100m max @ 1-600 MHz
<b>Insulation Resistance</b>	5000 MegaOhm·Km min. @ 500 Vdc
<b>Coupling attenuation</b>	55 dB min @ 30-100 MHz 55-20Log(f/100)@100-600 MHz
<b>Transfer Impedance</b>	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

ORDERING INFORMATION			
Product Code	Packaging	Approx. OD(mm)	Approx. Weight(kg/km)
EDMP1ER45602MHOSFT18K	305m Box	7.5±0.5	16.74
EDMP1ER45602MHOSFT185	500m Drum	7.5±0.5	26.3
EDMP1ER45602MHOSFT181	1000m Drum	7.5±0.5	52.2