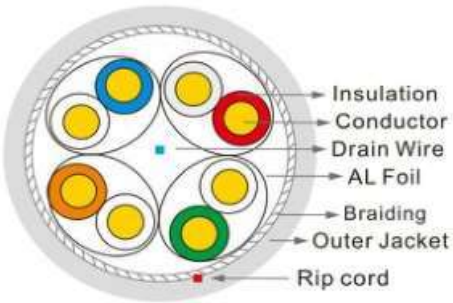


# Data Sheet

Doc No.:Q/HT J043-2019  
Ver : V1.0 2019/12/

Model MS-CAT7 S/FTP 305BC- bare copper		<b>CAT 7 CABLE,S/FTP,4 PAIRS,100 Ω ,LSZH</b>				
<b>Physical</b> 		Conductor : Material : solid bare copper Diameter : <b>0.57±0.03mm /23AWG</b> Insulation : Material: SKIN-FOAM-SKIN PE Diameter :1.35±0.02mm Overlap rate : ≥20% Drain wire : 1*0.4 tinned copper Jacket : Material : <b>LSZH</b> <b>Diameter : 8.2±0.5mm</b> Thickness: ≥0.55mm   Rip cord : Nylon				
<b>Physical Characteristics</b>			<b>Electrical Characteristics (20℃)</b>			
Conductor Elongation ratio : ≥15% Insulation Tensile strength : ≥10MPa Insulation Elongation ratio : ≥200% Jacket Tensile strength : ≥10.0MPa Jacket Elongation ratio : ≥125%			Linear resistance : ≤8.5 Ω /100m Insulation resistance : ≥5000M Ω /km Mutual capacity 0.8kHz: ≤5.6nF/100m Unbalance resistance : ≤2% Characteristic impedance : 100±15 Ω (1-250MHz), 100±20 Ω (250-500MHz) Dielectric strength :DC.1kV.1min no break			
<b>Transmission performance (20℃,100m)</b>						
Frequency (MHz)	Return Loss (dB)	Attenuation (dB/100m)	NEXT (dB)	PS NEXT (dB)	EL FEXT (dB/100m)	PS EL FEXT (dB/100m)
4	23	3.7	78	75	78	75
8	24.5	5.2	78	75	77.2	74.2
10	25	5.9	78	75	75.3	72.3
16	25	7.4	78	75	71.2	68.2
25	24.3	9.3	78	75	67.3	64.3
100	20.1	19	72.4	69.4	55.3	52.3
200	18.0	27.5	67.9	64.9	49.3	46.3
250	17.3	31	66.4	63.4	47.3	44.3
300	17.3	34.2	65.2	62.2	45.8	42.8
500	17.3	45.3	61.9	58.9	41.3	38.3
600	17.3	50.1	60.7	57.7	39.7	36.7
900*	15.5	58.5	61.0	58.0	36.0	33.0
1000*	15.1	61.9	60.0	57.0	35.0	32.0
<b>Install info</b>			<b>Standard</b>			
working temperature : -20℃ to +60℃			ISO/IEC 11801    IEC61156-5    EN50173			
Bending radius : ≥10×out diameter			RoHS 2011/65/EU    REACH EC 1907/2006			