

CABLE SPECIFICATIONS:

Construction:
Conductor: 24AWG 7/32 stranded tinned copper
Insulation: High density polyethylene
Pairs: Color Coded singles twisted into pairs
Cable: (4) Twisted pairs twisted together and wrapped with tissue tape
Jacket: Polyurethane, teal. Pressure extruded

Physical Properties:
Temperature Rating, max: 75°C
Temperature Rating, min: -40°C
UV resistant jacketing?: Yes
Bend Radius: 1" for static bend
Flex Life: 1MM cycles (10x cable O.D. minimum radius)
10MM cycles (20x cable O.D. minimum radius)

Electrical Characteristics:
Capacitance, mutual: 13.5 PF/Ft at 1 MHz
Dielectric withstanding, min: 1500V RMS
Voltage rating, max: 300V
D.C. Resistance, max: 26.0 Ω/1000 Ft
Impedance: 100 +/- 15Ω 1 - 100 MHz; 100 +/- 20Ω 100 - 350 MHz
SRL: 23 db 1 - 20 MHz
23 - 10 LOG(F/10) 20 - 100 MHz

Return Loss: 1 - 10 MHz 20 + 5 LOG (F) db min
10 - 20 MHz 25 db min
20 - 100 MHz 25 - 8.6 LOG(F/20) db min

PS Next: 1 - 100 MHz 71 - 15 LOG(F/.772) min

Next: 1 - 100 MHz 73 - 15 LOG(F/.772) min

PS ACRF: 1 - 100 MHz 67 - 20 LOG(F/.772) min

ACRF: 1 - 100 MHz 67 - 20 LOG(F/.772) min

Delay: 1 - 100 MHz 534 + 36/sqrt(F)

Delay Skew: 1 - 100 MHz <25nS

LCL: 1 - 100 MHz -38dB min

Attenuation		
Frequency	SPEC 70M of Cable (Cat 5e Channel)	Attenuation / meter
1.0	2.5	0.036
4.0	4.5	0.064
8.0	6.3	0.09
10.0	7.0	0.1
16.0	9.2	0.13
20.0	10.3	0.15
25.0	11.4	0.16
31.25	12.8	0.18
62.5	18.5	0.26
100.0	24.0	0.343

DRAWN BY	ADM	MENCOM CORPORATION		
DRAWN DATE	08/22/2023			
CHECKED BY	JJH			
CHECK DATE	08/22/2023			
COMMENTS:		TITLE:		
		SIZE	DWG. NO.	REV
		B	MDE45P-8MMP-ZZ	D
		SCALE: 3:2	WEIGHT:	SHEET 2 OF 2