

CABLE SPECIFICATIONS:

Construction:

Conductor: 26AWG 7/34 stranded tinned copper
Insulation: HDPE
Pairs: Color Coded singles twisted into pairs
Cable: (4) Twisted pairs twisted together and wrapped with polyester binder
Overall shield of 38AWG tinned copper braid (75% min coverage).
Aluminized polyester foil shield (foil in) over the braid.
Jacket: Polyurethane, teal. Pressure extruded

Physical Properties:

Temperature Rating, max: 75°C
Temperature Rating, min: -40°C
Wt./m' nom., net: 35.5 lbs
Flex Life: 1 Million cycle test (10x cable OD min. rad.)
10 Million cycle test (20x cable OD min rad.)
Jacket Smoke Generation: Ds = 251 (Flaming, @ 4 minutes)
(per ASTM E662, nom.) Ds = 16 (Non-Flaming, @ 4 minutes)

Electrical Characteristics:

Capacitance, mutual: 13.5 PF/Ft at 1 MHz
Dielectric withstanding, min: 1500V RMS
Voltage rating, max: 300V
D.C. Resistance, max: 42.6 Ω/1000 Ft
Impedance: 100 +/- 15Ω 1 - 100 MHz;
Impedance Smooted: 100 +/- 10Ω Typical 5 - 100 MHz;
SRL: 23 db 1 - 20 MHz
23 - 10 LOG(F/20) 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 64 - 15 LOG(F/.772) min
Next: 1 - 100 MHz 67 - 15 LOG(F/.772) min
PS Elfext: 1 - 100 MHz 63 - 20 LOG(F/.772) min
Elfext: 1 - 100 MHz 66 - 20 LOG(F/.772) min
Attenuation 1 - 100 MHz 1.5[1.967 sqrt(F)+.23(F) + 0.5/sqrt(F)] max
Delay: 1 - 100 MHz 534 + 36/sqrt(F)
Delay Skew: 1 - 100 MHz <25nS
Coupling Attenuation: 30 - 100 MHz 50dB min
Velocity Propagation: 68%

Note: All cable testing done with raw cable off the reel.

DRAWN BY	ADM	MENCOM CORPORATION		
DRAWN DATE	08/23/2023			
CHECKED BY	JJH			
CHECK DATE	08/24/2023			
		TITLE:		
		SIZE	DWG. NO.	REV
		B	MDE45PB-8MFPS-ZZ	B
		SCALE: 3:2	WEIGHT:	SHEET 2 OF 2