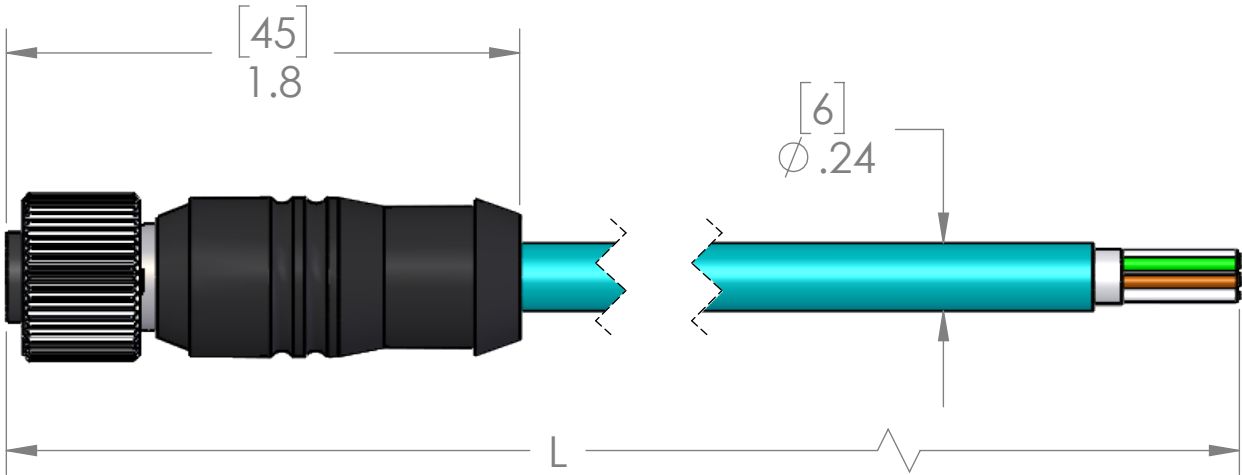


MDE45	
PIN #	COLOR
1	WHITE / BLUE
2	WHITE / BROWN
3	BROWN
4	ORANGE
5	WHITE / GREEN
6	WHITE / ORANGE
7	BLUE
8	GREEN
COUPLING	SHIELD

M12X1
FEMALE



[15]
.6



MATERIALS	
BODY:	BLACK PUR
CONTACTS:	GOLD PLATED COPPER ALLOY
CABLE:	
STYLE:	AWM CAT 5e
AWG:	26 AWG
JACKET:	TEAL PUR
VOLTAGE:	600V
SHIELD:	BRAIDED
COUPLING:	NICKEL PLATED BRASS
INSERT:	POLYAMIDE
O-RING:	FPM
APPROVALS	
US:	UL LISTED
CANADA:	C-UL LISTED
ROHS:	YES
CE & UKCA:	YES
RATINGS	
PROTECTION CLASS:	IEC IP69

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS
DRAWING IS THE SOLE PROPERTY OF
MENCOM CORPORATION. ANY
REPRODUCTION IN PART OR AS A WHOLE
WITHOUT THE WRITTEN PERMISSION OF
MENCOM CORPORATION IS
PROHIBITED.

VOLTS
AMPS
TEMP:

60V
2A
80C

UNLESS OTHERWISE SPECIFIED:	DRAWN BY	ADM
DIMENSIONS ARE IN INCHES AND [MM]	DRAWN DATE	08/25/2023
	CHECKED BY	JJH
	CHECK DATE	08/25/2023
MATERIAL	COMMENTS:	
FINISH		
DO NOT SCALE DRAWING		

PARTS LISTED AS NOT BEING STANDARD
MAY REQUIRE MINIMUM ORDERS

MENCOM CORPORATION

TITLE:

SIZE DWG. NO. REV
B MDE45PB-8FSP-ZZ B

SCALE: 3:2 WEIGHT: SHEET 1 OF 2

	8	7	6	5	4	3	2	1	
	CONSTRUCTION: NOM. DIA.								
	CONDUCTOR:	26 AWG 7/34 STRANDED TINNED COPPER	.0236"						
	INSULATION:	HIGH DENSITY POLYETHYLENE, .011" NOM. WALL THICKNESS	.046"						
	PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS	.092"						
	CABLE:	(4) TWISTED PAIRS TWISTED TOGETHER AND WRAPPED WITH A FOAM POLYPROPYLENE TAPE TO FORM A CABLE CORE.	.210"						
D	SHIELDS:	AN OVERALL SHIELD OF 38 AWG TINNED COPPER BRAID (75% MINIMUM COVERAGE), SHALL BE APPLIED OVER THE CABLE CORE. A SECOND SHIELD OF ALUMINIZED POLYESTER FOIL (FOIL IN, 100% COVERAGE) SHALL BE APPLIED OVER THE BRAID.	.229"						
	JACKET:	THERMOPLASTIC ELASTOMER, TEAL, .037" NOM. WALL THICKNESS (PRESSURE) OVERALL CABLE DIAMETER	.301" ± .010" BY PI TAPE						
	PHYSICAL PROPERTIES:								
	TEMPERATURE RATING, MAX. 75°C & 80°C								
	TEMPERATURE RATING, MIN. -40°C (MANUFACTURER'S RECOMMENDED)								
	WT./M', NOM., NET. 43.0 LBS.								
	JACKET IS WELD SPATTER RESISTANT								
C	JACKET IS SUNLIGHT RESISTANT								
	FLEX LIFE (PENDING)								
	(126 CYCLES/MIN)	1 MILLION CYCLE TEST (10X CABLE O.D., MINIMUM RADIUS)							
		10 MILLION CYCLE TEST (20X CABLE O.D., MINIMUM RADIUS)							
	TORSION TEST (PENDING)								
		(1 LB LOAD, 360°, 71 CYCLES/MIN) 3 MILLION CYCLE TEST							
→	JACKET CUTTING/MACHINING OIL RESISTANCE (6 MONTHS @ 20°C)								←
		TENSILE STRENGTH RETENTION, NOM. 80%							
		ELONGATION RETENTION, NOM. 100%							
	POE COMPLIANT (802.3af) TO 80 METERS WHEN INSTALLED PER RECOMMENDATIONS IN TIA TSB-184								
	CABLE WILL MEET CAT 5e CHANNEL REQUIREMENTS TO 90 METER LENGTH								
B	ELECTRICAL CHARACTERISTICS: (FOR 100m OF CABLE)								
	CAPACITANCE, MUTUAL, NOM.	13.5 PF/FT. AT 1 MHZ							
	DIELECTRIC WITHSTANDING, MIN	2000V RMS							
	VOLTAGE RATING, MAX.	600V							
	D.C. RESISTANCE, MAX.	26.0 Ω/1,000'							
	IMPEDANCE	100+/- 15 Ω 1-100 MHZ							
	IMPEDANCE, SMOOTHED	100 +/- 10 Ω 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 ACRF	1-100 MHZ 63 - 20 LOG(F/.772) MIN							
	ACRF	1-100 MHZ 66 - 20 LOG(F/.772) MIN							
	ATTENUATION	1-100 MHZ 1.2[1.967 SQRT(F) +.023(F) +.05/SQRT(F)]MAX							
	DELAY	1-100 MHZ 534 + 36/SQRT(F)							
A	DELAY SKEW	1-100 MHZ <25NS							
	COUPLING ATTENUATION	30-100 MHZ 50 DB MINIMUM							
	PER IEC 62153-4-9								
	VELOCITY OF PROPAGATION	68%							
	NOTE: ALL TESTING IS CONDUCTED OFF THE REEL.								
	8	7	6				2	1	

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		TITLE:		
COMMENTS:		SIZE	DWG. NO.	REV
		B	MDE45PB-8FSP-ZZ	B
		SCALE: 3:2	WEIGHT:	SHEET 2 OF 2

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CHECKED BY	JJH	TITLE:		
CHECK DATE	08/25/2023			
COMMENTS:		SIZE	DWG. NO.	REV
		B	MDE45PB-8FSP-ZZ	B
		SCALE: 3:2	WEIGHT:	SHEET 2 OF 2