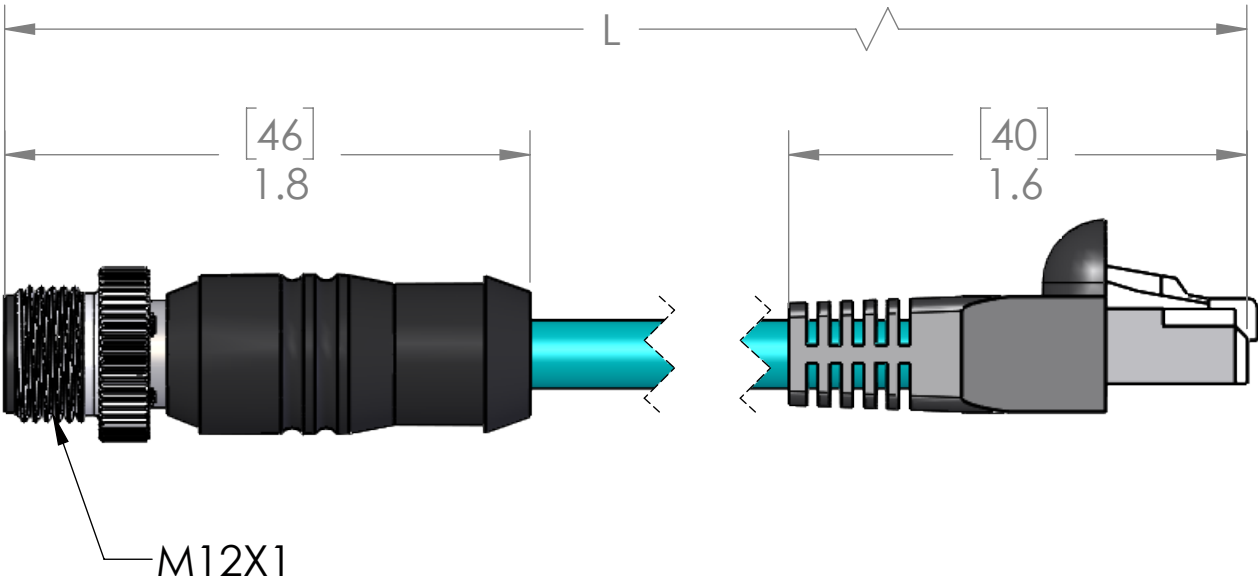
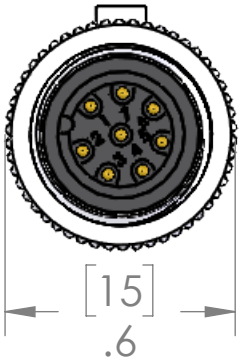


MDE45	COLOR	RJ45
PIN #		PIN #
1	WHITE/BLUE	5
2	WHITE/BROWN	7
3	BROWN	8
4	ORANGE	2
5	WHITE/GREEN	3
6	WHITE/ORANGE	1
7	BLUE	4
8	GREEN	6
COUPLING	SHIELD	SHIELD



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:	N/A
APPROVALS	
US:	UL LISTED
CANADA:	C-UL LISTED
ROHS:	YES
CE & UKCA:	YES
RATINGS	
PROTECTION CLASS:	IEC IP69

PROPRIETARY AND CONFIDENTIAL
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VOLTS	42VDC
AMPS	1.5A
TEMP:	80°C

UNLESS OTHERWISE SPECIFIED:	DRAWN BY	JJH
DIMENSIONS ARE IN INCHES AND [MM]	DRAWN DATE	08/23/2023
	CHECKED BY	JJH
	CHECK DATE	08/24/2023
MATERIAL	COMMENTS:	
FINISH		
DO NOT SCALE DRAWING		

TABLE A		
P/N	L	STD?
MDE45PB-8MSP-RJ45S-1M	40" [1m]	YES
MDE45PB-8MSP-RJ45S-2M	79" [2m]	YES
MDE45PB-8MSP-RJ45S-3M	118" [3m]	NO
MDE45PB-8MSP-RJ45S-4M	157" [4m]	NO
MDE45PB-8MSP-RJ45S-5M	197" [5m]	YES
MDE45PB-8MSP-RJ45S-6M	236" [6m]	NO
MDE45PB-8MSP-RJ45S-8M	315" [8m]	NO
MDE45PB-8MSP-RJ45S-10M	393" [10m]	YES
MDE45PB-8MSP-RJ45S-12M	472" [12m]	NO

PARTS LISTED AS NOT BEING STANDARD
MAY REQUIRE MINIMUM ORDERS

MENCOM CORPORATION

TITLE:

SIZE	DWG. NO.	REV
B	MDE45PB-8MSP-RJ45S-ZZ	C

SCALE: 3:2	WEIGHT:	SHEET 1 OF 2
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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: (per ASTM E662, nom.)	Ds = 251 (Flaming, @ 4 minutes) 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 +/- 15 Ω 1 - 100 MHz;	
Impedance Smooted:	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 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
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	JJH	MENCOM CORPORATION		
DRAWN DATE	08/23/2023			
CHECKED BY	JJH	TITLE:		
CHECK DATE	08/24/2023			
COMMENTS:		SIZE	DWG. NO.	REV
		B	MDE45PB-8MSP-RJ45S-ZZ	C
		SCALE: 3:2	WEIGHT:	SHEET 2 OF 2