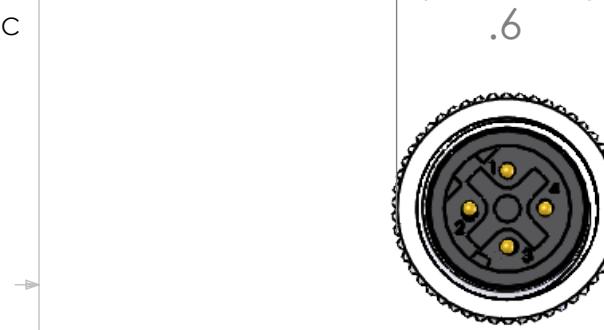
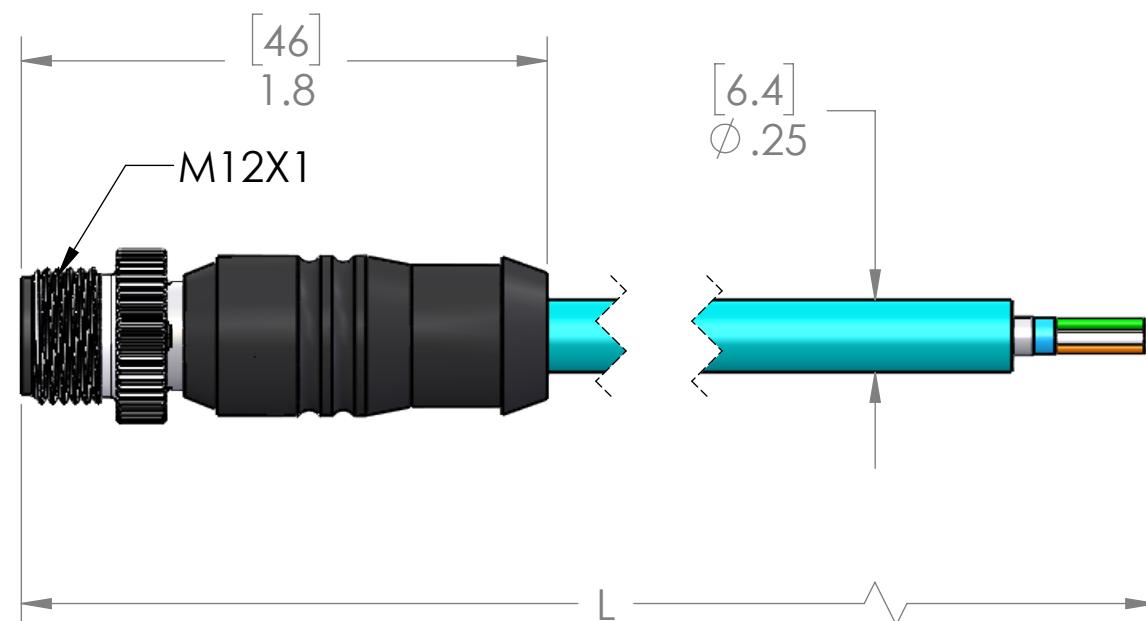


8 7 6 5 4 3 2 1

MDC	WIRE
PIN #	COLOR
1	WHITE w/ORANGE
2	WHITE w/GREEN
3	ORANGE
4	GREEN
SHIELD	COUPLING



MATERIALS	
BODY:	BLACK PUR
CONTACTS:	GOLD PLATED COPPER ALLOY
CABLE:	
STYLE:	AWM CAT 5e
AWG:	24 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



BRAID TERMINATED TO COUPLING NUT

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	300V
AMPS	4A
TEMP:	80°C

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

P/N	L	STD?
MDE45PB-4MSP-1M	40" [1m]	YES
MDE45PB-4MSP-2M	79" [2m]	YES
MDE45PB-4MSP-3M	118" [3m]	NO
MDE45PB-4MSP-4M	157" [4m]	NO
MDE45PB-4MSP-5M	197" [5m]	YES
MDE45PB-4MSP-6M	236" [6m]	NO
MDE45PB-4MSP-8M	315" [8m]	NO
MDE45PB-4MSP-10M	393" [10m]	YES
MDE45PB-4MSP-15M	590" [15m]	YES
MDE45PB-4MSP-20M	786" [20m]	NO
MDE45PB-4MSP-25M	983" [25m]	NO
MDE45PB-4MSP-30M	1179" [30m]	NO

PARTS LISTED AS NOT BEING STANDARD
MAY HAVE MINIMUM ORDER QUANTITIES

MENCOM CORPORATION

TITLE:

SIZE DWG. NO.
B MDE45PB-4MSP-ZZREV
C

SCALE: 3:2 WEIGHT: SHEET 1 OF 2

8 7 6 5 4 3 2 1

SPECIFICATIONS:	
CABLE JACKET MATERIAL:	POLYURETHANE, TEAL,
CABLE DIAMETER:	OVERALL CABLE DIAMETER .24" [6.1mm] , .25"[6.25mm] MAX.
COND. JACKET MATERIAL:	POLYOLEFIN,
COND. JACKET THICKNESS:	.01" [.25mm] NOM. WALL THICKNESS (RJ45 plug compatible)
COND. STRANDING:	24 AWG 7/34 STRANDED TINNED COPPER
PAIRING:	Grn x Wht/Grn + Org x Wht/Org
SHIELD:	AN OVERALL ALUMINIZED POLYESTER FOIL SHIELD (FOIL OUT, 100% COVERAGE) SHALL BE APPLIED OVER THE CABLE CORE AND SHALL CONTAIN A 26 AWG 7/34 STRANDED TINNED COPPER DRAIN WIRE IN CONTACT WITH THE METALIZED SURFACE. A SECOND SHIELD OF 38AWG TINNED COPPER BRAID (85% MINIMUM COVERAGE), SHALL BE APPLIED OVER THE FOIL SHIELD.
WEIGHT:	Nom: 28.6#/Mft [42.6Kg/Km]
ELECTRICAL REQUIREMENTS: for 100m of cable	
CAT 5e	
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'
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 ELFEXT	1-100 MHZ 63 - 20 LOG(F/.772) MIN
ELFEXT	1-100 MHZ 66 - 20 LOG(F/.772) MIN
ATTENUATION	1-100 MHZ $1.5[1.967 \text{ SQRT}(F) +.023(F) +.05/\text{SQRT}(F)]\text{MAX}$
DELAY	1-100 MHZ $534 + 36/\text{SQRT}(F)$
DELAY SKEW	1-100 MHZ <25NS
LCL	1-100 MHZ -38dB MIN
VELOCITY OF PROPAGATION	68%

DRAWN BY	ADM	MENCOM CORPORATION	
DRAWN DATE	08/24/2023		
CHECKED BY	JJH	TITLE:	
CHECK DATE	08/24/2023		
COMMENTS:			
SIZE	DWG. NO.	REV	
B	MDE45PB-4MSP-ZZ	C	
SCALE: 3:2		WEIGHT:	SHEET 2 OF 2