

WIRING DIAGRAM



SHIELD CONNECTED TO THE HOUSING

TECHNICAL DATA :
M12 D-Coded CAT5e Cordset AWG24
straight Teal inline 360° shielded.

Poles : 4
Max. Voltage : 30V A.C. or 42V D.C.
Max. Current : 1.5A
Contact resistance : $<5\text{m}\Omega$
Insulation Withstand : $>100\text{m}\Omega$
Protection M12 : IP67
Temperature range : -25°C to 85°C

TRANSMISSION CHARACTERISTICS
ACCORDING TO ISO/IEC 11801 CATEGORY 5e
PATCH CORD PROFINET TYPE C
Low-halogen status
according to IEC 60332-1/-2

Packaging :
The cordsets are packed in a polybag.

Wrap Label : VIE
Marked with P/N, Date Code, Voltage & Amperage

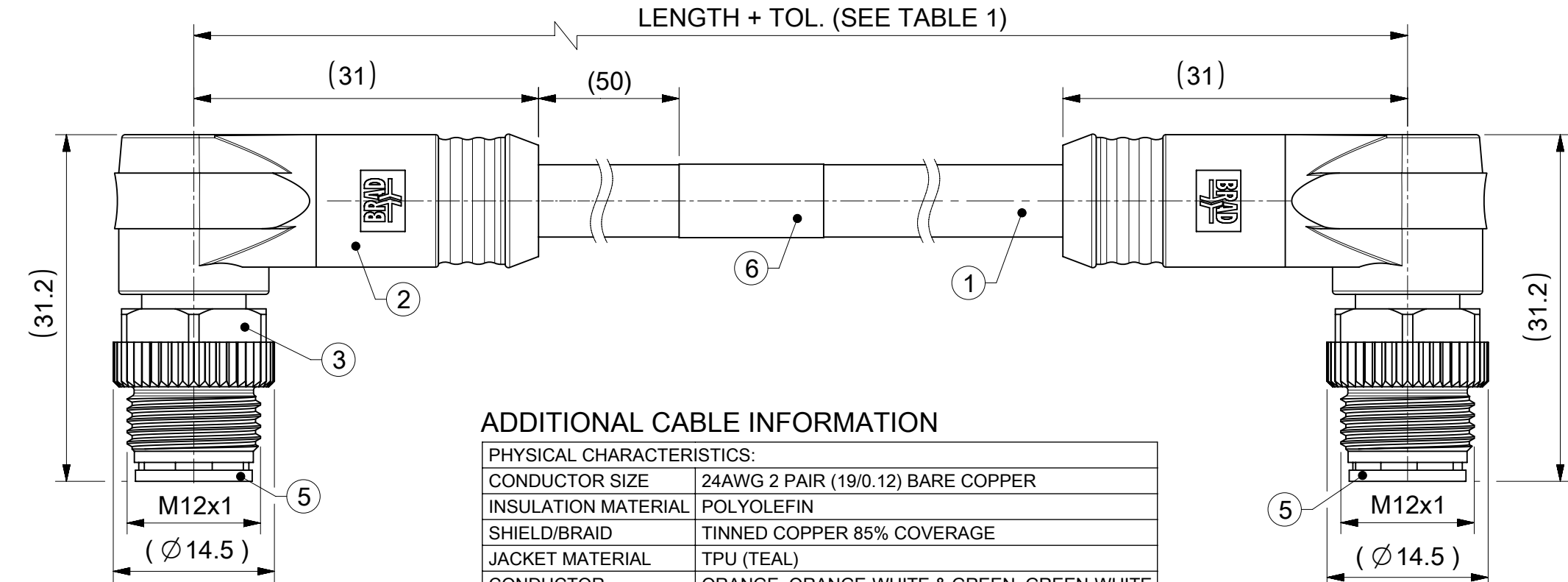
PART No. MATRIX

E	1	1	A	0	6	3	1	6	M	X	X	X	X
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Diagram showing the connection of the 12-pin D-sub connector to the RJ45 connector. The 12-pin connector has pins labeled E, HEADS, HEADS STYLE, CABLE TYPE, Units, Length, and OPTIONAL. The RJ45 connector has pins labeled 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12. The connections are: E to 1, 2; HEADS to 3, 6; HEADS STYLE to 4, 5; CABLE TYPE to 7, 8; Units to 9, 10; Length to 11, 12; and OPTIONAL to 13, 14.

TABLE 2

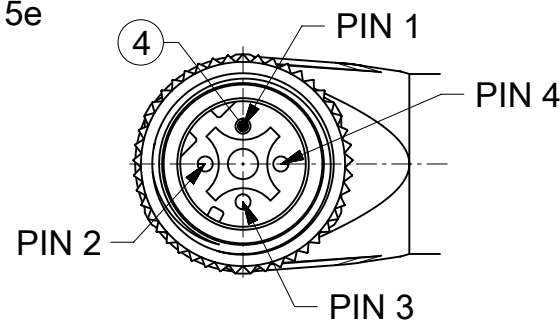
CABLE LENGTH TOLERANCES	
LENGTH	TOLERANCE
0m-1m	+40 mm
>1m-5m	+60 mm
>5m-10m	+80 mm
>10m-20m	+140 mm
>20m-30m	+160 mm
>30m	+1% length



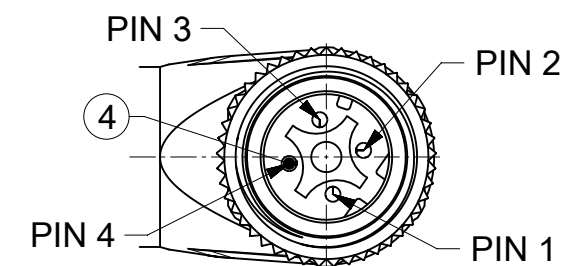
ADDITIONAL CABLE INFORMATION

PHYSICAL CHARACTERISTICS:	
CONDUCTOR SIZE	24AWG 2 PAIR (19/0.12) BARE COPPER
INSULATION MATERIAL	POLYOLEFIN
SHIELD/BRAID	TINNED COPPER 85% COVERAGE
JACKET MATERIAL	TPU (TEAL)
CONDUCTOR	ORANGE, ORANGE-WHITE & GREEN, GREEN-WHITE
TAPE	ALUMINIUM-POLYESTER

CABLE:	
WELD SLAG RESISTANCE	YES, S-300 MOLEX TEST
FREE SUBSTANCE'S	FCKW, SILICONE, AND P
FIRE PERFORMANCE	IEC60332-1, UL1581
OIL RESISTANCE	ISO6722, UL758/2556



VIEW FROM THE FRONT SIDE



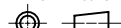
VIEW FROM THE FRONT SIDE

BOM

ITEM	QTY,	DESCRIPTION	MATERIAL	FINISH/COLOR
1	-	CABLE	TPU	TEAL
2	-	OVERMOLD	TPU	BLACK
3	2	M12 COUPLING NUT	BRASS	NICKEL PLATED
4	8	M12 MALE PIN CONTACT	COPPER ALLOY	GOLD PLATED
5	2	INSERT MALE 4P	PUR	BLACK
6	1	LABEL	VINYL	WHITE

TABLE 1

MOLEX PN	ENGINEERING No	L+TOL[m]
1201088845	E11A06316M008	0.8
1201088548	E11A06316M010	1
1201088549	E11A06316M020	2
1201088789	E11A06316M030	3
1201088550	E11A06316M050	5
1201088551	E11A06316M100	10
1201088790	E11A06316M200	20

FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION														
	DIMENSION UNITS		SCALE		CURRENT REV DESC:			molex							
	mm		2:1												
	GENERAL TOLERANCES (UNLESS SPECIFIED)														
 = 0								CSE M12 ETH 4P DC MA MA RA WSOR XM DE							
 = 0															
 = 0	ANGULAR TOL ± 1.0 °														
DIVISIONAL SYMBOLS	4 PLACES		±		EC NO: 797270			PRODUCT CUSTOMER DRAWING							
	3 PLACES		±		DRWN: NIKHIS3 2024/09/04										
	2 PLACES		± 0.05		CHK'D: RSILLER 2024/09/05										
	1 PLACE		± 0.3		APPR: RSILLER 2024/09/05										
	0 PLACES		± 0.5		INITIAL REVISION:										
					DRWN: GMAJCHER 2017/08/03										
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
				A3-SIZE		120108		1201088549		PSD		000		A5	
								MATERIAL NUMBER		CUSTOMER				SHEET NUMBER	
								SEE TABLE 1		GENERAL MARKET				1 OF 1	