

PART No MATRIX

E	1	7	A	0	6	0	1	1	M	X	X	X	X
---	---	---	---	---	---	---	---	---	---	---	---	---	---

E=ETHERNET

HEADS:
1=M12 D-Coding
7=RJ45 PUSHPULL
PLUG

HEADS STYLE:
060= MALE STR / MALE STR

WIRING TYPE:
A=4 Pole (STRAIGHT WIRED)

CABLE TYPE

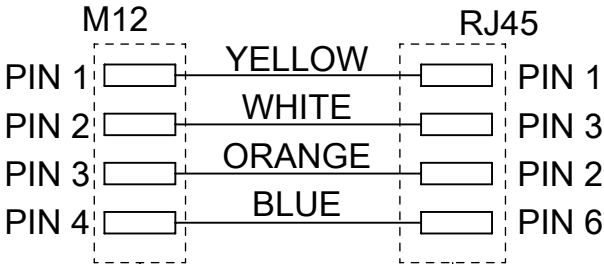
UNITS :
M= METER
T=10x METER

LENGTH EXAMPLES:
005=0.5
010=1
150=15

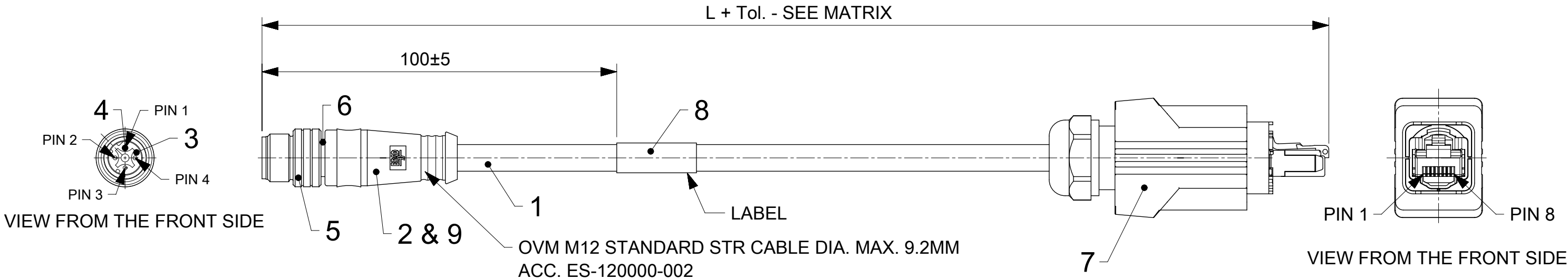
OPTIONS

H= 2 PCS. OF I/D Carrier

WIRING DIAGRAM



SHIELD CONNECTED TO THE HOUSING



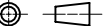
NOTES:

- 1) MATERIAL : SEE TABLE
- 2) FINISHES : SEE TABLE
- 3) CABLE : #22x2x2 SHIELDED PUR
- 4) ELECTRICAL DATA:
ACCORDING TO ETHERNET STANDARD
MAX. VOLTAGE : 30V
MAX. CURRENT : 1.5A
- 5) ENVIRONMENTAL :
PROTECTION CLASS RJ45 : IP20
PROTECTION CLASS M12 : IP67 in mated and locked position
OPERATING TEMPERATURE : -25°C TO +85°C
- 6) WRAP LABEL IS MARKED WITH P/N DATE CODE,
VOLTAGE & AMPERAGE.
- 7) ASSEMBLY IS RoHS COMPLIANT.

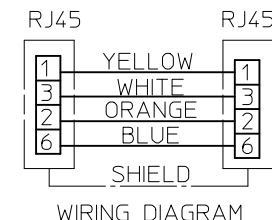
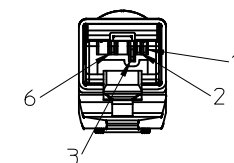
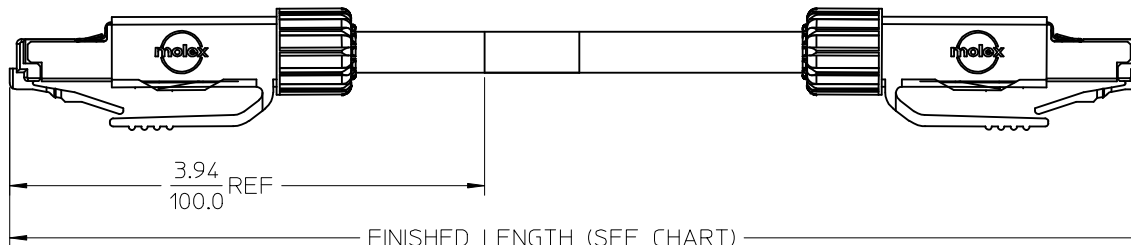
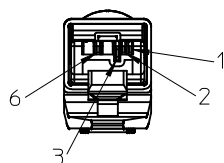
BOM

8	1	LABEL WRAP	VINYL	YELLOW
7	1	RJ45 Push Pull Plug Connector	-	-
6	1	M12 SHIELD SLEEVE	BRASS	NICKEL PLATED
5	1	COUPLING NUT M12 MA	BRASS	NICKEL PLATED
4	4	CONTACT 10 MA	BRONZE	GOLD OVER NICKEL PLATED
3	1	INSERT M12 MA 4P DC	PUR	BLACK
2	-	MOULDING MATERIAL	TPU	BLACK
1	-	CABLE 2x2x22AWG	PUR	GREEN
ITEM	QTY	DESCRIPTION	MATERIAL	FINISH/COLOR

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

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: CABLE AND STDS UPDATED					<div>molex</div>				
	mm		1:1											
	GENERAL TOLERANCES (UNLESS SPECIFIED)													
	ANGULAR TOL ± 0.5 °													
	4 PLACES									EC NO: 672185 DRWN: MDHARMANTI 2021/07/22 CHK'D: RSILLER 2021/09/20 APPR: RSILLER 2021/09/20				
	3 PLACES													
	2 PLACES		± 0.13											
	1 PLACE		± 0.25		INITIAL REVISION: DRWN: MDHARMANTI 2021/07/22 APPR: RSILLER 2021/09/20					DOCUMENT NUMBER 1201080204		DOC TYPE PSD	DOC PART 000	REVISION A
	0 PLACES													
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION 										

DOCUMENT STATUS	P1	RELEASE DATE	2021/09/20	12:58:23
-----------------	----	--------------	------------	----------



NOTES:

- 1) MATERIAL: SEE TABLE
- 2) FINISHES: SEE TABLE
- 3) CABLE: #22/4 SHIELDED PUR
- 4) ELECTRICAL DATA:
ACCORDING TO CAT5e ETHERNET STANDARD
MAX. VOLTAGE: 30V
MAX. CURRENT 1.5A
- 5) ENVIRONMENTAL:
PROTECTION IP67
TEMPERATURE RANGE: -20°C TO 60°C
- 6) WRAP LABEL IS MARKED WITH P/N, DATE CODE, VOLTAGE & AMPERAGE.
- 7) ASSEMBLY IS RoHS COMPLIANT.

ADDITIONAL CABLE PARAMETERS

PHYSICAL CHARACTERISTICS:	
CONDUCTOR PAIR SIZE	#22 (7 X #30) BARE COPPER ALLOY
WIRE CROSS SECTION	0.34mm ² (NOM)
INSULATION TYPE	POLYOLEFIN INSULATION
FOIL SHIELD	PLASTIC/ALUMINIUM FOIL WITH FOIL OUT
BRAID SHIELD	TINNED COPPER BRAID WITH MIN. 85% COVERAGE
OUTSIDE DIAMETER	Ø 6.7mm (.264")
JACKET INSULATION	GREEN PUR
PROFINET CABLE STYLE	TYPE C

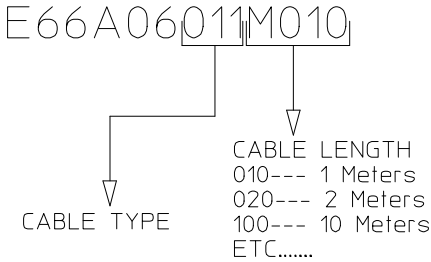
ENVIRONMENTAL CHARACTERISTICS:		MECHANICAL CHARACTERISTICS FOR C-TRACK APPLICATIONS:	
FLAME RESISTANCE	FT1 APPROVED	MIN. BENDING RADIUS	15xCABLE DIAMETER
AGENCY CERTIFICATIONS	UL AND CSA	OPERATING WAY	5M OF TRAVEL
OPERATION TEMPERATURE	-20°C TO 60°C	SPEED	200M/Min.
STORAGE TEMPERATURE	-40°C TO 80°C	MAX. C-TRACK CYCLES	5 MILLION
HALOGEN FREE	IEC 60754-1	ACCELERATION	MAX. 2m/s
SILICONE FREE	YES	WELD SLAG RESISTANCE	NO TEST RESULTS AVAILABLE
CFC-FREE	YES		

IMPRINT: X N X 2x2xAWG22/7-9H(ST)C11Y INDUSTRIAL ETHERNET
PROFINET TYP C E48408 cULus AWM STYLE 20236
AWM I/II A/B 80°C 30 V FT1

1	LABEL	PLASTIC FILM	BLACK/YELLOW
2	RJ45 PLUG	N/A	BLACK
1	ETHERNET CABLE-CAT5E	PUR JACKET	GREEN
QTY.	DESCRIPTION	MATERIAL	FINISH

ADDED PART NO. TABLE EC NO: IPG2015-2010 DRAWING: GUSTAFSON 2015/05/22 CHKD: BARDEN 2015/07/16 APPR: BWOODMAN 2015/06/09				DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 1:50	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	
		mm	INCH			DRAWN BY BRUPERT	DATE 2011/11/28	TITLE ENET MMJ RJ45/RJ45					
4 PLACES		± ---	± ---			CHECKED BY							DATE
3 PLACES		± ---	± .005			APPROVED BY							DATE
2 PLACES		± 0.13	± .010			JFMURPHY		2012/04/17	MOLEX INCORPORATED				
1 PLACE		± 0.25	± .020			MATERIAL NO.		DOCUMENT NO.					
		ANGULAR ±1/2°				SEE CHART		SD-120108-044		1 OF 2			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									

MATERIAL NO.	ENGINEERING NO.
1201088119	E66A06011C650
1201080207	E66A06011M005
1201080267	E66A06011M010
1201080202	E66A06011M020
1201080269	E66A06011M030
1201080270	E66A06011M040
1201080271	E66A06011M050
1201080272	E66A06011M060
1201080128	E66A06011M070
1201080129	E66A06011M090
1201080273	E66A06011M100
1201088112	E66A06011M120
1201080274	E66A06011M150
1201080275	E66A06011M200
1201080276	E66A06011M250
1201080277	E66A06011M300
1201088113	E66A06011M400
1201080278	E66A06011M500
1201088114	E66A06011M600
1201088248	E66A06011M700
1201088115	E66A06011M800
1201088197	E66A06011M900



ADDED PART NO. TABLE EC NO: IPG2015-2010 DRAWN:GUSTAFSON 2015/05/22 CHKD:BARDEN 2015/07/16 APPR:BMOODMAN 2015/06/09	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 1:50	DESIGN UNITS INCH	THIRD ANGLE PROJECTION				
			mm	INCH	DRAWN BY BRUPERT	DATE 2011/11/28	TITLE ENET MMJ RJ45/RJ45						
			4 PLACES ± --- ± ---	3 PLACES ± --- ± .005	CHECKED BY	DATE							
			2 PLACES ± 0.13 ± .010	1 PLACE ± 0.25 ± .020	APPROVED BY JFMURPHY	DATE 2012/04/17	molex						
			0 PLACE ± --- ± ---	MATERIAL NO.		DOCUMENT NO.						SHEET NO.	
			ANGULAR ±1/2°		SEE CHART							SD-120108-044	
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								