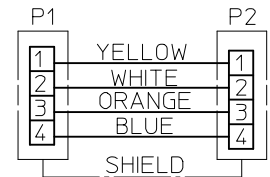


ADDITIONAL CABLE PARAMETERS

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:	
FLAME RESISTANCE	FT1 APPROVED
AGENCY CERTIFICATIONS	UL AND CSA
OPERATION TEMPERATURE	-20°C TO 60°C
STORAGE TEMPERATURE	-40°C TO 80°C
HALOGEN FREE	IEC 60754-1
SILICONE FREE	YES
CFC-FREE	YES

MECHANICAL CHARACTERISTICS FOR C-TRACK APPLICATIONS:	
MIN. BENDING RADIUS	15x CABLE DIAMETER
OPERATING WAY	5M OF TRAVEL
SPEED	200M/Min.
MAX. C-TRACK CYCLES	5 MILLION
ACCELERATION	MAX. 2m/s
WELD SLAG RESISTANCE	NO TEST RESULTS AVAILABLE



WIRING DIAGRAM

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.

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

QTY.	DESCRIPTION	MATERIAL	FINISH
1	LABEL	PLASTIC FILM	BLACK/YELLOW
2	INSERT	PUR	BLACK
8	PIN CONTACT	COPPER ALLOY	GOLD PLATED
2	M12 COUPLING NUT	BRASS	NICKEL
2	OVERMOLD	PUR	BLACK
1	ETHERNET CABLE-CAT5E	PUR JACKET	GREEN

UPDATED PART NUMBERS EC NO.: IPG2016-0189 DRAWING: GUSTAFSON 2015/08/03 CHKD: BRUPERT 2015/10/02 APPR: BWOODMAN 2015/08/14	QUALITY SYMBOLS	▽=0 ▽=0
	DESCRIPTION	
	REV	

GENERAL TOLERANCES (UNLESS SPECIFIED)	
	mm INCH
4 PLACES	± .005 ± .002
3 PLACES	± .005 ± .002
2 PLACES	± 0.13 ± .010
1 PLACE	± 0.25 ± .020
ANGULAR ± 1/2°	

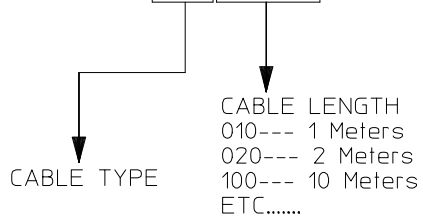
DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	
IN/MM	
DRAWN BY	DATE
BRUPERT	2011/11/23
CHECKED BY	DATE
APPROVED BY	DATE
JFMURPHY	2012/04/17
MATERIAL NO.	
SIZE	B

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
1:1	INCH	☉
MIC 4P M/MP ST/ST D-CODE		
MOLEX INCORPORATED		SHEET NO. 1 OF 2
DOCUMENT NO. SD-120108-041		

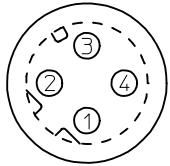
MATERIAL NO.	ENGINEERING NO.
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1201080199	E11A06011M020
1201080237	E11A06011M030
1201080213	E11A06011M040
1201080238	E11A06011M050
1201080239	E11A06011M060
1201080240	E11A06011M070
1201080241	E11A06011M080
1201080242	E11A06011M090
1201080243	E11A06011M100
1201080244	E11A06011M120
1201080245	E11A06011M140
1201080246	E11A06011M150
1201080247	E11A06011M180
1201080248	E11A06011M200
1201080249	E11A06011M240
1201088256	E11A06011M250
1201080250	E11A06011M300
1201088257	E11A06011M350
1201080281	E11A06011M400
1201080251	E11A06011M500
1201080282	E11A06011M600
1201080283	E11A06011M700
1201080287	E11A06011M750
1201080284	E11A06011M800
1201080288	E11A06011M900
1201088201	E11A06011T100

E11A06011M010



UPDATED PART NUMBERS EC NO: IFC2016-0189 TDRWNG:GUSTAFSON 2015/08/03 CHKD:BRUPERT 2015/10/02 APPR:WOODMAN 2015/08/14	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 1:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION																				
		<table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> </thead> <tbody> <tr> <td>4 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>3 PLACES</td> <td>± ---</td> <td>± .005</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.13</td> <td>± .010</td> </tr> <tr> <td>1 PLACE</td> <td>± 0.25</td> <td>± .020</td> </tr> <tr> <td>0 PLACE</td> <td>± ---</td> <td>± ---</td> </tr> </tbody> </table>			mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± .005	2 PLACES	± 0.13	± .010	1 PLACE	± 0.25	± .020	0 PLACE	± ---	± ---	DRAWN BY DATE BRUPERT 2011/11/23		CHECKED BY DATE		TITLE MIC 4P M/MP ST/ST D-CODE			
			mm	INCH																									
		4 PLACES	± ---	± ---																									
3 PLACES	± ---	± .005																											
2 PLACES	± 0.13	± .010																											
1 PLACE	± 0.25	± .020																											
0 PLACE	± ---	± ---																											
ANGULAR ±1/2°		APPROVED BY DATE JFMURPHY 2012/04/17		MATERIAL NO.		DOCUMENT NO.		SHEET NO.																					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-120108-041		2 OF 2		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																					

M12 4 POLE
MALE



VIEW FROM THE WIRES SIDE

Pin	Wire color
1	YELLOW
2	WHITE
3	ORANGE
4	BLUE

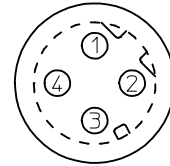
E 1 1 A 0 6 0 1 1 X X X X X

Network Protocol E=Ethernet	First and Second Connector 1=M12 Threaded 4 Pole D-code	Insert A=4 Pole	HEAD TYPE 060 Plugs male straight / plugs male straight	Cable type 2x2x22AWG PUR, Green, Shield	LENGTH UNIT C-cm M-m K-km F-feet	LENGTH Example: 020 - 2M 060 - 6M 100 - 10M	OPTIONS D- Decoupled (for Shielded version only) H- 2x ID CARRIER
--------------------------------	--	--------------------	--	---	--	---	---

Table of length tolerances

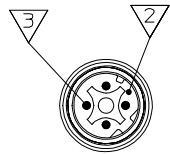
Over	Up to and including	Tolerance (+)
0	305	+19
305	915	+45
915	1830	+56
1830	3660	+89
3660	7320	+165
7320	14640	+317
14640	30500	+610
30500	>	2% of length

M12 4 POLE
MALE

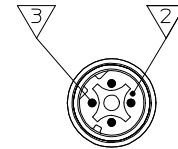
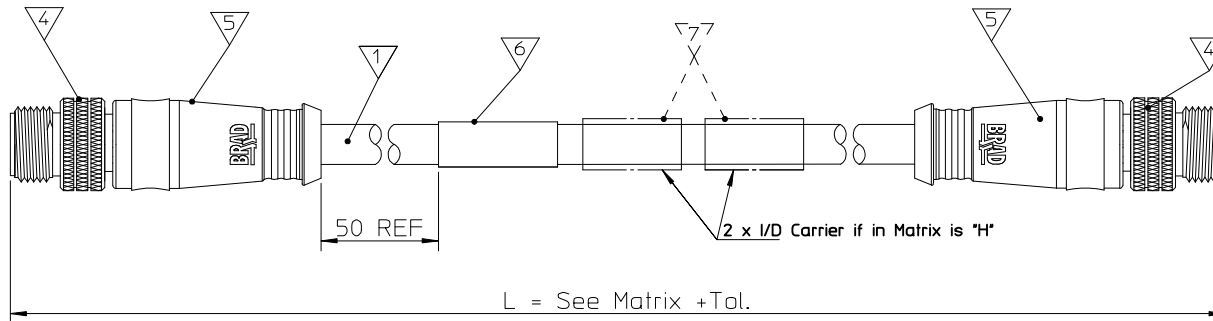


VIEW FROM THE WIRES SIDE

Pin	Wire color
1	YELLOW
2	WHITE
3	ORANGE
4	BLUE



VIEW FROM THE FRONT SIDE



VIEW FROM THE FRONT SIDE

Bill of Materials

ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH
7	-	ID CARRIER	SEE MATRIX	SEE MATRIX
6	1	LABEL	-	YELLOW
5	-	MOLDING MATERIAL	TPU	BLACK
4	2	COUPLING NUT MALE M12	CuZn38Pb3	CuNi3
3	8	CONTACT MALE	CuNi2Si	Cu/Ni2
2	2	INSERT M12 4P MALE DC	PUR	BLACK
1	-	CABLE 4x0.34 mm ²	PUR	GREEN

UPDATED DRAWING
EC NO: IPG2016-0383
DRW:AKONDRAC LUK 2015/09/11
CHKD:MMALGAT 2015/09/11
APPR:MIWASIECZKO 2015/09/29

QUALITY SYMBOLS
▽=0
◻=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
0 PLACE	± ---	± ---

ANGULAR ± --- °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

DRAWN BY: MDYSZEWSKA
DATE: 2012/11/24

CHECKED BY: HWALCZAK
DATE: 2012/11/24

APPROVED BY: MIWASIECZKO
DATE: 2013/01/21

MATERIAL NO. SEE MATRIX

SIZE: A3

SCALE: ---

DESIGN UNITS: METRIC

THIRD ANGLE PROJECTION

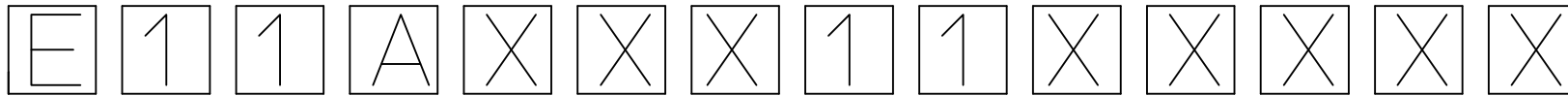
TITLE: CSE ETH ETH 4P DC MA PUR
MA XM DE SHLD GN NI

molex

DOCUMENT NO. SD-120108-051

SHEET NO. 1 OF 1

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION



Network Protocol
E=Ethernet

First and Second Connector
1=M12 Threaded 4 Pole D-code

Wiring Scheme
A=4 Pole

HEAD TYPE
060 Plugs male straight and plugs male straight
062 Plugs male straight and plugs male 90°
063 Plugs male 90° and plugs male 90°

Cable type
2x2x22AWG
PUR, GREEN, SHIELD

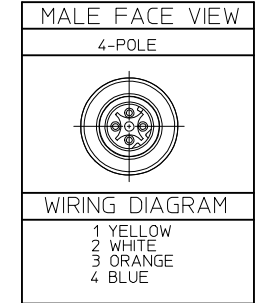
LENGTH UNIT
C-cm
M-m
K-km
F-feet

LENGTH
Example:
020 - 2M
060 - 6M
100 - 10M

OPTIONS
D- Decoupled (for Shielded version only)

SEE CHART 1

1201080199	E11A06011M020
1201080200	E11A06311M020
1201080201	E11A06211M020
1201080213	E11A06011M040
1201080236	E11A06011M010
1201080237	E11A06011M030
1201080238	E11A06011M050
1201080239	E11A06011M060
1201080240	E11A06011M070
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1201080245	E11A06011M140
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1201080247	E11A06011M180
1201080248	E11A06011M200
1201080249	E11A06011M240
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1201080251	E11A06011M500
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1201080282	E11A06011M600
1201080283	E11A06011M700
1201080284	E11A06011M800
1201080287	E11A06011M750
1201080288	E11A06011M900
1201080295	E11A06311M010
1201080296	E11A06311M050
1201080297	E11A06311M100



Over	Up to and including	Tolerance ^(*)
0	305	+19
305	915	+45
915	1830	+56
1830	3660	+89
3660	7320	+165
7320	14640	+317
14640	30500	+610
30500	>	2 % of length

ORIGINAL RELEASE EC NO: IPG2013-0932 DRWN: MDYSZEWSKA 2012/11/24 CHKD: HWALCZAK 2012/11/24 APPR: MIWASIECZKO 2013/01/21	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	FIRST ANGLE PROJECTION
	▽=0 ◻=0	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± ---	MM ONLY	---	METRIC	DRAWN BY: MDYSZEWSKA DATE: 2012/11/24 CHECKED BY: HWALCZAK DATE: 2012/11/24 APPROVED BY: MIWASIECZKO DATE: 2013/01/21
	ANGULAR ± --- °	DRAFT WHERE APPLICABLE	SIZE	TITLE		CSE ETH ETH 4P DC MA PUR MA XM DE SHLD GN NI
	MUST REMAIN WITHIN DIMENSIONS	SEE CHART 1	A3	MATERIAL NO. DOCUMENT NO. SHEET NO. SD-120108-051 2 OF 2		
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					