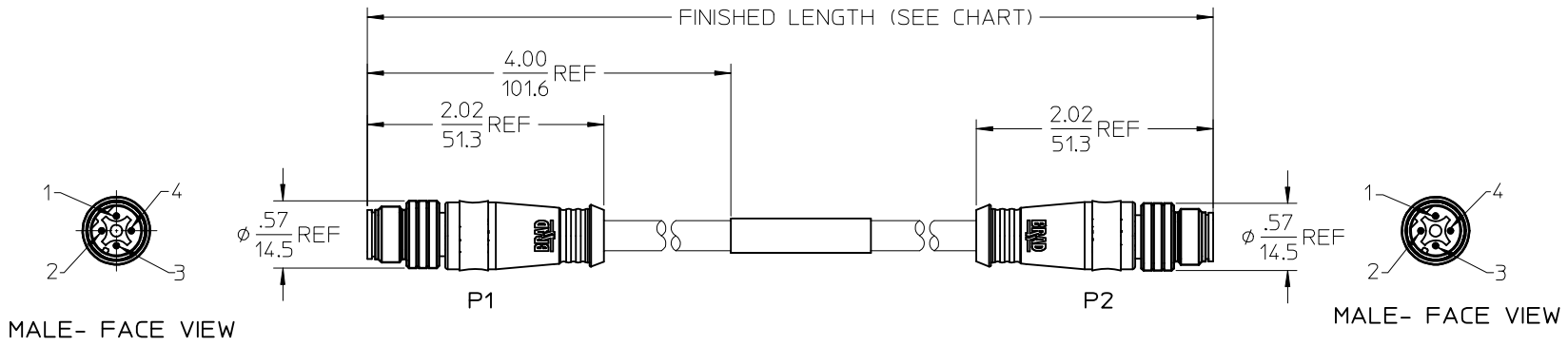


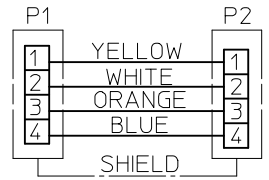
ADDITIONAL CABLE PARAMETERS

PHYSICAL CHARACTERISTICS:	
CONDUCTOR PAIR SIZE	#22 (7 X #30) BARE COPPER ALLOY
WIRE CROSS SECTION	0.34mm² (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	15xCABLE 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

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



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.

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 DRWN:GGUSTAFSON 2015/08/03 CH'KD:BRUPERT 2015/10/02 APPR:BWOODMAN 2015/08/14
DESCRIPTION
REV F

QUALITY SYMBOLS
▼=0
Ⓒ▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .005
2 PLACES	± 0.13	± .010
1 PLACE	± 0.25	± .020
ANGULAR ±1/2°		

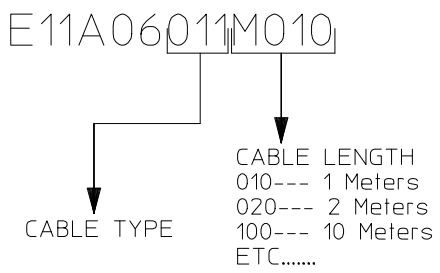
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: IN/MM
SCALE: 1:1
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

DRAWN BY: BRUPERT DATE: 2011/11/23
CHECKED BY: DATE:
APPROVED BY: JFMURPHY DATE: 2012/04/17
MATERIAL NO.: SEE CHART

TITLE: MIC 4P M/MP ST/ST D-CODE
MOLEX INCORPORATED
DOCUMENT NO.: SD-120108-041
SHEET NO.: 1 OF 2
SIZE: B

MATERIAL NO.	ENGINEERING NO.
1201080236	E11A06011M010
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



UPDATED PART NUMBERS
EC NO: IPG2016-0189 2015/08/03
DRWN:GGUSTAFSON 2015/10/02
CHKD:BRUPERT
APPR:BWOODMAN 2015/08/14
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .005
2 PLACES	± 0.13	± .010
1 PLACE	± 0.25	± .020
0 PLACE	± ---	± ---

ANGULAR ±1/2°
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

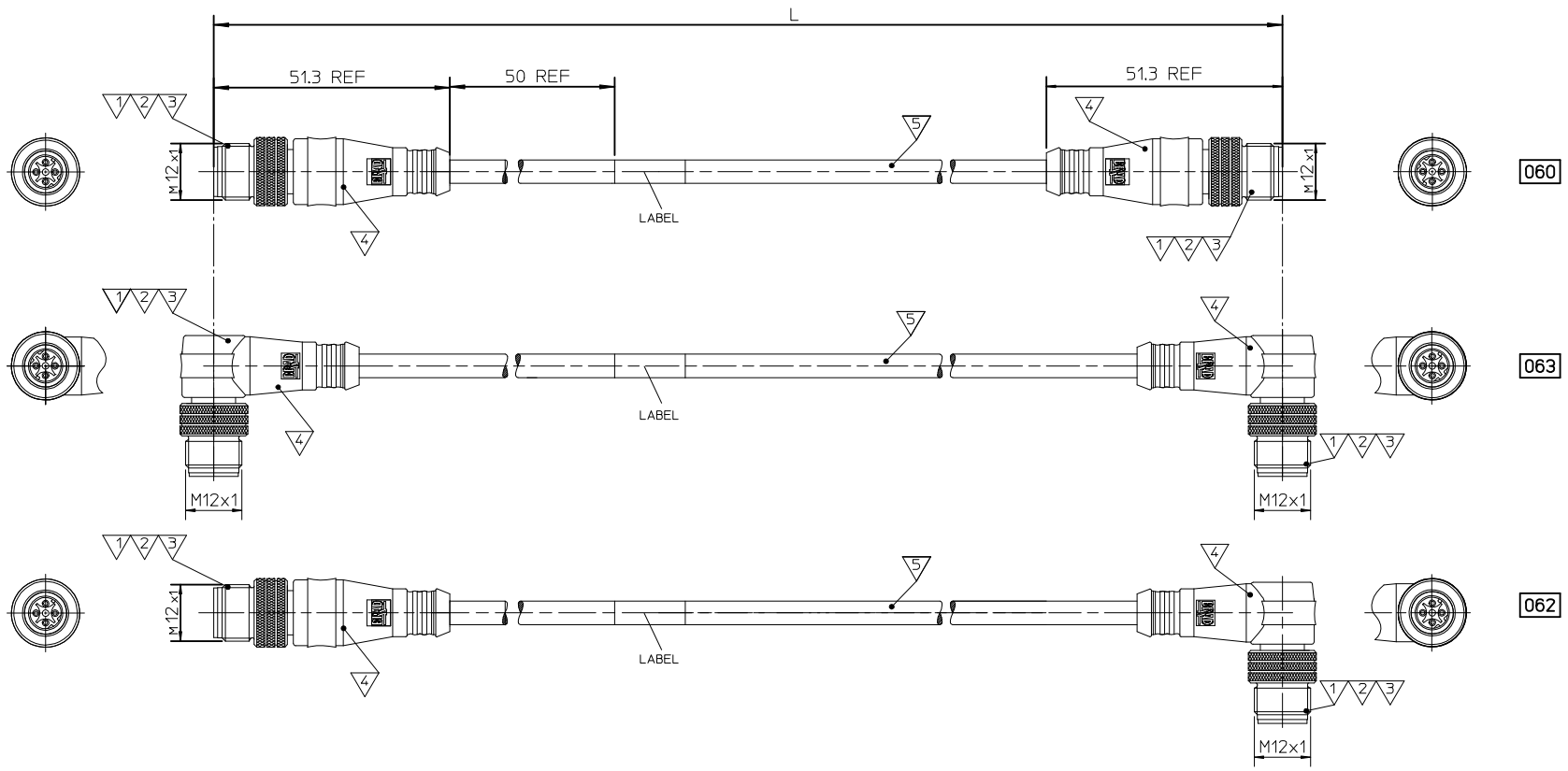
DIMENSION STYLE: IN/MM
SCALE: 1:1
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

DRAWN BY: BRUPERT DATE: 2011/11/23
CHECKED BY: DATE:
APPROVED BY: JFMURPHY DATE: 2012/04/17

TITLE: MIC 4P M/MP ST/ST D-CODE

molex

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-120108-041
SHEET NO.: 2 OF 2
SIZE: B



CONNECTOR SPECIFICATION:

VOLTAGE RATING	max 30V
AMPERAGE RATING	1.5 A
PROTECTION	IP67
OPERATING TEMPERATURE	-20°C TO 75°C

ITEM	PART	MATERIAL	FINISH
5	CABLE	1202098084	---
4	OVERMOULDING	TPU UF NATURAL C98A10	---
4	OVERMOULDING	MASTERBATCH COLORANT	---
3	COUPLING NUT	SEE SPECIAL TYPES	---
2	PIN CONTACT	COPPER ALLOY	GOLD OR NICKEL PLATED
1	INSERT	PUR	BLACK

ORIGINAL RELEASE
EC NO: IPG2013-0932
DRWN:MDYSZEWSKA 2012/11/24
CH'KD:HWALCZAK 2012/11/24
APPR:MIWASIECZKO 2013/01/21
DESCRIPTION
A
REV

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
SCALE: ---
DESIGN UNITS: METRIC
FIRST ANGLE PROJECTION

DRAWN BY: MDYSZEWSKA DATE: 2012/11/24
CHECKED BY: HWALCZAK DATE: 2012/11/24
APPROVED BY: MIWASIECZKO DATE: 2013/01/21

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

molex

MATERIAL NO.: SEE PAGE 2
DOCUMENT NO.: SD-120108-051
SHEET NO.: 1 OF 2
SIZE: A3

E	1	1	A	X	X	X	1	1	X	X	X	X	X

- Networ 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 straigh
  - 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
1201080241	E11A06011M080
1201080242	E11A06011M090
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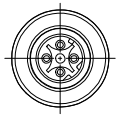
1201080247	E11A06011M180
1201080248	E11A06011M200
1201080249	E11A06011M240
1201080250	E11A06011M300
1201080251	E11A06011M500
1201080281	E11A06011M400
1201080282	E11A06011M600
1201080283	E11A06011M700
1201080284	E11A06011M800
1201080287	E11A06011M750
1201080288	E11A06011M900
1201080295	E11A06311M010
1201080296	E11A06311M050
1201080297	E11A06311M100

MALE FACE VIEW

4-POLE



WIRING DIAGRAM

1 YELLOW
2 WHITE
3 ORANGE
4 BLUE

Table of lenght 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 lenght

ORIGINAL RELEASE
EC NO: IPG2013-0932
DRWN:MDYSZEWSKA 2012/11/24
CH'KD:HWALCZAK 2012/11/24
APPR:MIWASIECZKO 2013/01/21
DESCRIPTION
REV
A

QUALITY SYMBOLS
▼=0
Ⓒ=0

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2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
0 PLACE	± ---	± ---

ANGULAR ±---°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: ---
DESIGN UNITS: METRIC
FIRST ANGLE PROJECTION

DRAWN BY: MDYSZEWSKA DATE: 2012/11/24
CHECKED BY: HWALCZAK DATE: 2012/11/24
APPROVED BY: MIWASIECZKO DATE: 2013/01/21

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

molex

MATERIAL NO.: SEE CHART 1
DOCUMENT NO.: SD-120108-051
SHEET NO.: 2 OF 2
SIZE: A3