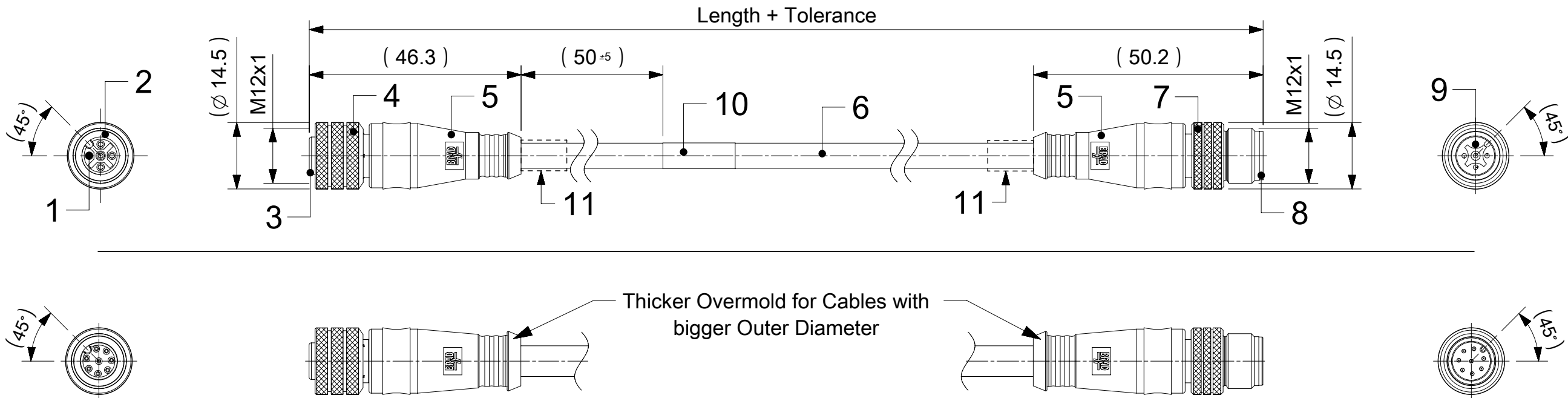


FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT



NOTES:

RATED VOLTAGE: 3, 4 contacts 250V per IEC 60664
5 contacts 60V per IEC 60664
5 contacts 250V per UL 2238
8 contacts 30V per IEC 60664
RATED CURRENT: 3, 4, 5 contacts 4A
8 contacts 2A

PROTECTION CLASS: IP 67
TEMPERATURE: -25°C / +85°C
CONTACTS POSITION FRONT VIEW:

	3 CONTACTS		4 CONTACTS		5 CONTACTS		8 CONTACTS	
FEMALE								
MALE								
CONNECTIONS	PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE
	1	BROWN	1	BROWN	1	BROWN	1	WHITE
	2	---	2	WHITE	2	WHITE	2	BROWN
	3	BLUE	3	BLUE	3	BLUE	3	GREEN
	4	BLACK	4	BLACK	4	BLACK	4	YELLOW
	5	---	5	---	5	GREY OR GREEN/YELLOW	5	GREY
							6	PINK
							7	BLUE
CODING REQUIRED TO IEC 61076-2-101								

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

11	SEE SHEET 2	ID CARRIER	PVC	TRANSPARENT
10	1	LABEL YELLOW	VINYL	---
	-	PRINTING FOR CABLES lxx	---	---
9	3 / 4 / 5 / 8	CONTACT MALE	SEE PART LIST	SELECTIVE Au OVER Ni
8	1	INSERT MALE BLACK	TPU	---
7	1	COUPLING NUT MALE	---	---
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOULDING BLACK	TPU	---
4	1	COUPLING NUT FEMALE	---	---
3	1	INSERT FEMALE BLACK	PUR	---
2	1	ORING RED	FPM	---
1	3 / 4 / 5 / 8	CONTACT FEMALE	SEE PART LIST	SELECTIVE Au OVER Ni
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

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: REMOVED OBSOLETE PART NUMBERS AS PER PCN#516585				molex	
mm		1:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)				CSE M12 XP AC FE STR MA STR XM DE					
ANGULAR TOL ± 1.0 °									
4 PLACES		±		EC NO: 823299		2025/05/16			
3 PLACES		±		DRWN: VISHAH2					
2 PLACES		± 0.05		CHK'D: GGA					
1 PLACE		± 0.3		APPR: GGA		2025/05/29		PRODUCT CUSTOMER DRAWING	
0 PLACES		± 0.5		INITIAL REVISION:					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				DRWN: JMARSZALEK		2016/09/19		DOCUMENT NUMBER	
				APPR: RSILLER		2016/12/08		1200668165	
								PSD	
						000		A9	
						</			

ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Other parts available upon request).

88X030XXXXXX

88=Micro-Change
M12x1
Double ended

Contacts:
3=3 Contacts
4=4 Contacts
5=5 Contacts
8=8 Contacts

Heads style:
030=Plug Female Straight
to Plug Male Straight

Cable type: See Table

Units:
M=Meter

Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

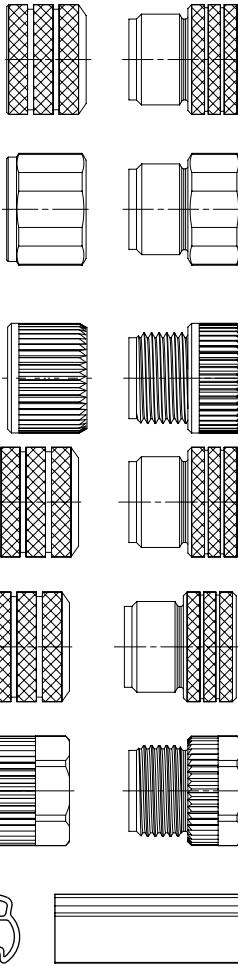
OPTIONS

Overmold color:
Blank (Standard)=Black TPU
Blank=Yellow PVC for cables
A09, S19, S20, S26
Blank=Yellow TPE-E for cables
K03, K05
A=Grey / G=Black / Y=Yellow

Coupling Nut:
Blank (Standard)=Knurled Brass Ni Plated
1=Hexagonal Stainless steel
5=Knurled Derlin
7=Knurled Brass Ni Plated, Teflon Coated
Blank=7 for cables I20, I26, K03, K05, P82, S26
8=Type 316 stainless steel
9=Knurled / Hexagonal Brass Ni Plated SW13

H= 2 pcs. of I/D Carrier PVC Transparent
(Cables Ixx & P82 always with 2 pcs. of
I/D Carrier even if no H in Engineering No.)

COUPLING NUT
FEMALE MALE



CABLE LENGTH TOLERANCES		
OVER [mm]	UP TO AND INCLUDING [mm]	TOLERANCES [mm]
0	305	+19
305	915	+45
915	1830	+56
1830	3660	+89
3660	7320	+165
7320	14640	+317
14640	30500	+610
30500	>	+2% OF FINISHED LENGTH

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DIMENSION UNITS

mm

SCALE

1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 1.0 °

4 PLACES ±

3 PLACES ±

2 PLACES ± 0.05

1 PLACE ± 0.3

0 PLACES ± 0.5

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#516585

EC NO: 823299
DRWN: VISHAH2
CHK'D: GGA
APPR: GGA

2025/05/16
2025/05/29
2025/05/29

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

2016/09/19
2016/12/08

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

moLEX

CSE M12 XP AC FE STR MA STR XM DE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200668165

DOC TYPE

PSD

DOC PART

000

REVISION

A9

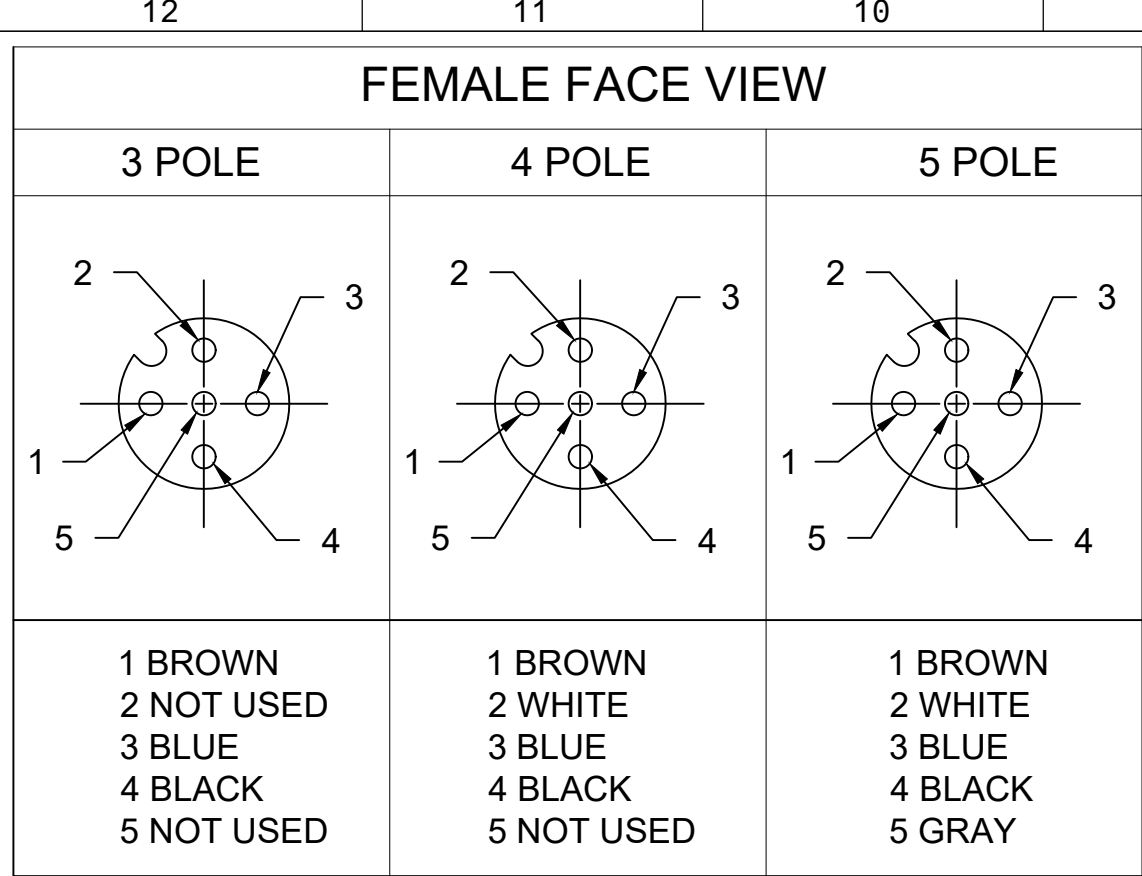
SEE PART LIST

GENERAL MARKET

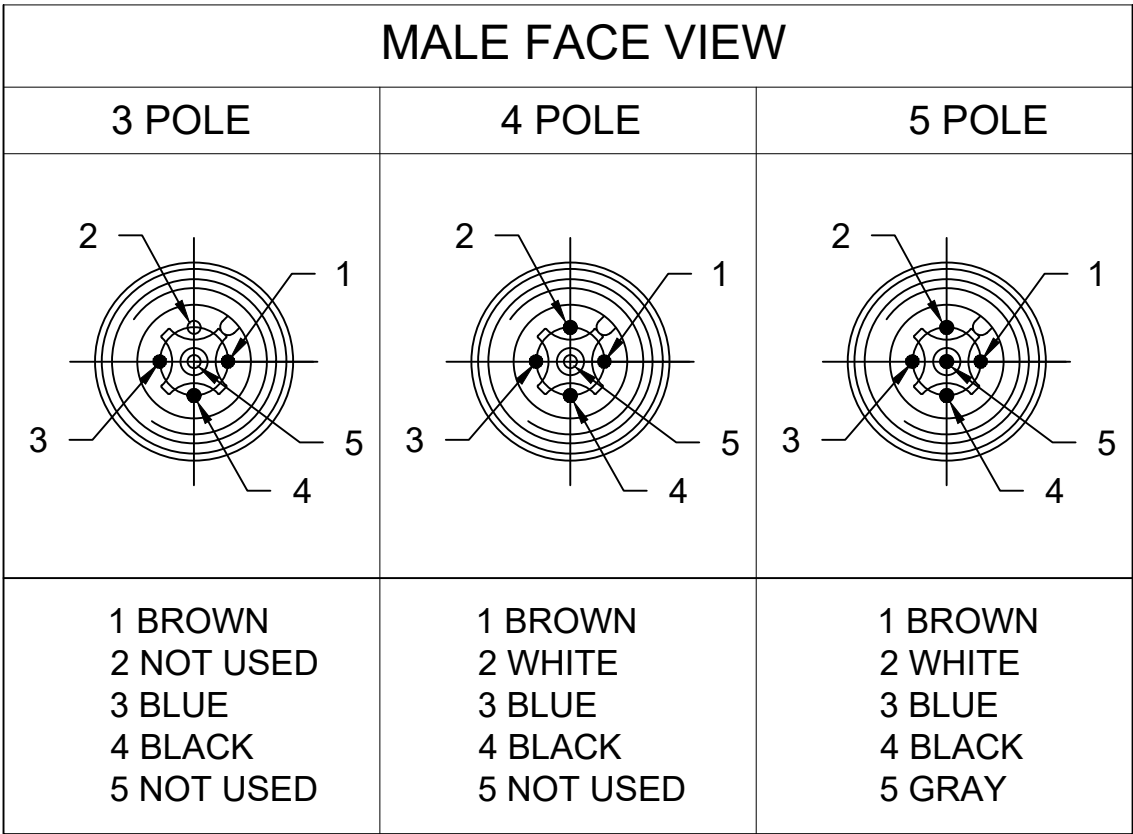
2 OF 5

A3-SIZE

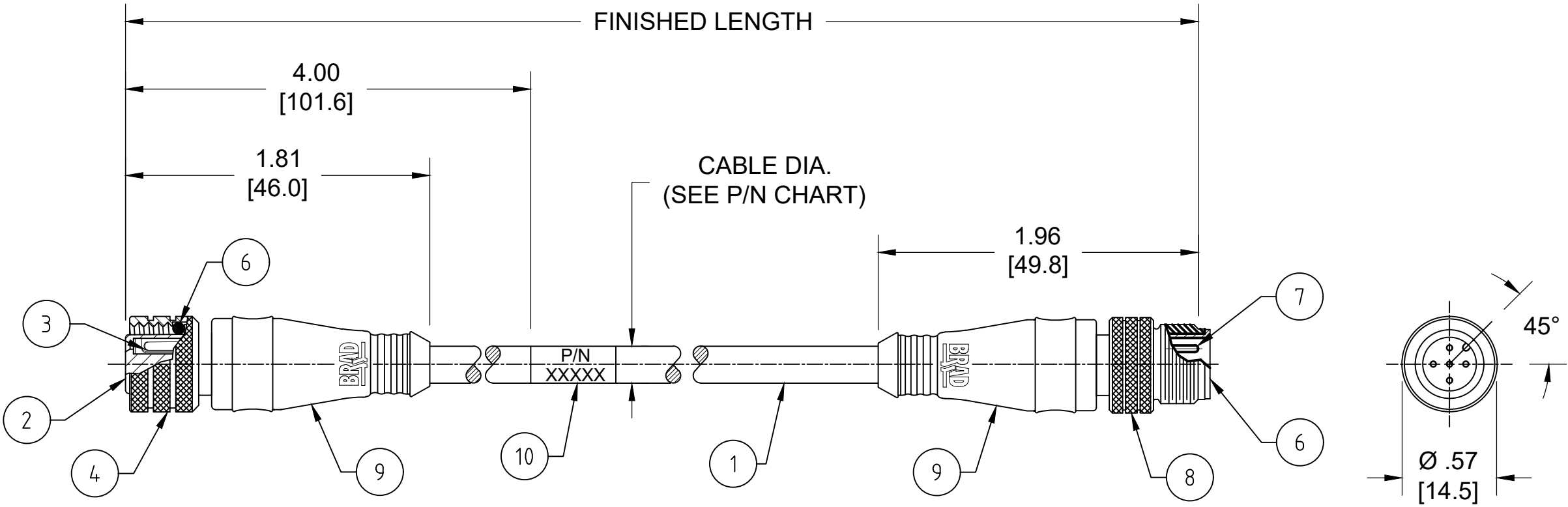
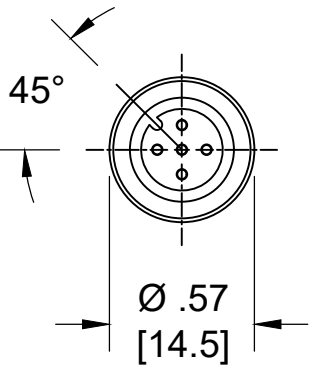
120066



PART NO.	ENGINEERING NO.	FINISHED LENGTH	POLES	CABLE DIA.
1200660675	883030K05M005	0.5M [1FT 8 IN]	3	.20[5.1]
1200660695	884030K05M100	10M [32FT 10 IN]	4	.21[5.3]
1200662239	885030K05M300	30M [98FT 5 IN]	5	.23[5.8]



- NOTES:
- 1. MATERIAL: AS NOTED
 - 2. FINISH: AS NOTED
 - 3. ELECTRICAL:
 - VOLTAGE: 250V
 - CURRENT: 4A
 - 4. TEMP RATING: -20°TO +105°C
 - 5. PROTECTION: IP67 (WHEN MATED)
 - 6. COUPLING THREAD: M12 X 1
 - 7. UL RECOGNIZED FILE: E152210
 - CSA CERTIFIED FILE: LR6837
 - 8. ALL DIMENSIONS ARE FOR REFERENCE UNLESS TOLERACED OR NOTED OTHERWISE



CABLE FLEX CHARACTERISTICS

TORSIONAL FLEX TEST	5 MILLION CYCLES PER MIL-C-13777G
BEND FLEX TEST	6.5 MILLION CYCLES PER MIL-C-13777G
DRAG CHAIN TEST	20 MILLION CYCLES PER MIL-C-13777G
WELD SLAG RESISTANCE	WOODHEAD STANDARD S-300

10	WRAP LABEL	VINYL	BLACK/WHITE
9	OVERMOLD	TPC	YELLOW
8	MALE COUPLING NUT	BRASS	NICKEL PLATED
7	CONTACT PIN	COPPER ALLOY	GOLD PLATED
6	MALE INSERT	PUR	BLACK
5	O-RING	VITON	RED
4	FEMALE COUPLING NUT	BRASS	NICKEL PLATED
3	CONTACT SOCKET	COPPER ALLOY	GOLD PLATED
2	FEMALE INSERT	PUR	BLACK
1	#22/3-5 AWG CABLE	TPE JACKET	YELLOW
ITEM	DESCRIPTION	MATERIAL	FINISH

PART NUMBER LEGEND

883030K05M005

POLES: 3,4 & 5

CABLE TYPE
22AWG
TPE YELLOW

FINISHED LENGTH:
M005 = 0.5 METER
M010 = 1 METER
M100 = 10 METER

CABLE LENGTH TOLERANCES

<.3M [1FT]: +19mm-0 [+.75in-0]

.3 - .9M [1 - 3FT]: +44.5mm-0 [+1.75in-0]

.9 - 1.8M [3 - 6FT]: +55.6mm-0 [+2.19in-0]

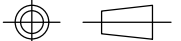
1.8 - 3.7M [6 - 12FT]: +88.9mm-0 [+3.50in-0]

3.7 - 7.3M [12 - 24FT]: +165.1mm-0 [+6.50in-0]

7.3-14.6M [24 - 48FT]: +317.5mm-0 [+12.50in-0]

14.6 - 30.5M [48-100FT]: +622.3mm-0 [+24.50in-0]

OVER 30M [100FT] +2% OF FINISHED LENGTH

FUNCTIONAL SYMBOLS F A =0 F E =0 F P =0 DIVISIONAL 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: ITEM-9 WAS TPE. ITEM-10 WAS BLACK/YELLOW. MODIFIED CABLE FLEX CHART, TEMP RATING AND PART NUMBER CHART				molex								
	INCH/MM		NTS														
	GENERAL TOLERANCES (UNLESS SPECIFIED)				MICRO-CHANGE CORDSET, M12 3-5 POLE, MALE-FEMALE, STRAIGHT, SINGLE KEY, #22AWG TPE CABLE PRODUCT CUSTOMER DRAWING												
		mm		INCH													
	4 PLACES		± ----	± ----													
	3 PLACES		± ----	± ----													
	2 PLACES		± ----	± ----													
	1 PLACE		± ----	± ----	INITIAL REVISION:				DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION		
	0 PLACES		± ----	± ----	DRWN: LSTEMMLE				2010/01/25		SD-120066-011		PSD		001		C
APPR: NSTAUDIG				2010/01/29													
ANGULAR TOL. ± ---- °				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						C-SIZE		120066		SEE CHART		GENERAL MARKET		1 OF 1			

molex

MICRO-CHANGE CORDSET, M12
3-5 POLE, MALE-FEMALE, STRAIGHT,
SINGLE KEY, #22AWG TPE CABLE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER DOC TYPE|DOC PART| REVISION

SD-120066-011 PSD 001 C