

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

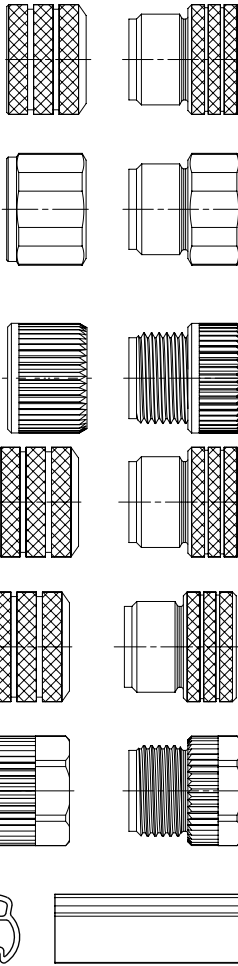
Options

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

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

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

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

THIRD ANGLE PROJECTION

DRAWING
A3-SIZE

SERIES
120066

MATERIAL NUMBER
SEE PART LIST

CUSTOMER
GENERAL MARKET

SHEET NUMBER
2 OF 5

DOCUMENT NUMBER
1200668165

DOC TYPE
PSD

DOC PART
000

REVISION
A9

CABLE INFORMATION

(for more information see Cable Data Sheet).

CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	DRAG CHAIN	SHIELD
A09	4	22AWG	PVC YELLOW	UL 2661	I/II A/B 80°C/300V	-	-	-	-
B02	4	18AWG	PUR YELLOW	UL 20549	I/II A/B 80°C/300V	-	-	-	-
E52	3 / 4	0.34mm²	PVC GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
E57	5	0.34mm²	PVC GREY	-	-	-	-5°C to +70°C	-	-
I03	3 / 4 / 5	0.34mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
I20	3 / 4	0.34mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	YES
I26	5	0.34mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	YES
A8K03	4 / 5	18AWG	TPE YELLOW	UL ITC or PLTC	I/II A/B 90°C/300V	max 105°C	-	2 000 000 cycles, >15xO.D.	-
K05	3 / 4 / 5	22AWG	TPE YELLOW	UL ITC or PLTC	I/II A/B 90°C/300V	max 105°C	-	2 000 000 cycles, >15xO.D.	-
P20	3 / 4 / 5	0.34mm²	PUR BLACK LS0H	-	-	-30°C to +80°C	-	-	YES
P82	3 / 4 / 5	0.34mm²	PUR IRR ORANGE	-	-	-50°C to +105°C, >5xO.D.	-40°C to +105°C, >7.5xO.D.	-	-
S19	8	0.25mm²	PVC YELLOW	UL 2661/1569	C22.2 II A 105°C/300V	-30°C to +105°C, >10xO.D.	-15°C to +105°C, >15xO.D.	2 000 000 cycles, >15xO.D.	YES
S20	3 / 4 / 5	0.34mm²	PVC YELLOW	UL 2661/1731	C22.2 II A 105°C/300V	-30°C to +105°C	-	-	YES
S26	5	0.34mm²	PVC YELLOW	UL 2661/1731	C22.2 II A 105°C/300V	-30°C to +105°C	-	-	YES

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DIMENSION UNITS

mm

SCALE

1:1

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ANGULAR TOL ± 1.0 °

4 PLACES ±

3 PLACES ±

2 PLACES ± 0.05

1 PLACE ± 0.3

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APPR: RSILLER

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

1200668165

PSD

000

A9

3 OF 5

2025/05/16

2025/05/29

2025/05/29

2016/09/19

2016/12/08

A3-SIZE

120066

SEE PART LIST

GENERAL MARKET

moLEX

CSE M12 XP AC FE STR MA STR XM DE

PRODUCT CUSTOMER DRAWING

10	9	8	7	6	5	4	3	2	1
PART LIST									
Part No.			Engineering No.			Cable Length			
A09									
1200660166	883030A09M010	1m							
1200660261	884030A09M005	0.5m							
1200660262	884030A09M006	0.6m							
1200660266	884030A09M010	1m							
1200660269	884030A09M015	1.5m							
1200660271	884030A09M020	2m							
1200660273	884030A09M0208	2m							
1200660277	884030A09M030	3m							
1200669113	884030A09M0308	3m							
1200660286	884030A09M0508	5m							
1200660291	884030A09M070	7m							
1200660294	884030A09M080	8m							
1200660434	885030A09M050	5m							
B02									
1200660857	884030B02M020	2m							
1200660860	884030B02M030	3m							
1200660862	884030B02M050	5m							
1200660867	884030B02M100	10m							
E52									
1200071343	883030E52M003A	0.3m							
1200070956	883030E52M020A	2m							
1200071026	884030E52M010A	1m							
1200661434	884030E52M020A	2m							
1200071624	884030E52M030A	3m							
1200661472	884030E52M050A	5m							
1200070867	884030E52M100A	10m							
1200070653	884030E52M200A	20m							
I03									
1200070095	883030I03M003	0.3m							
1200070096	883030I03M006	0.6m							
1200070097	883030I03M010	1m							
1200669149	883030I03M010Y	1m							
1200070098	883030I03M020	2m							
1200668632	883030I03M020Y	2m							
1200070099	883030I03M030	3m							
1200668633	883030I03M030Y	3m							
1200668371	883030I03M040	4m							
1200070100	883030I03M050	5m							
1200668634	883030I03M050Y	5m							
1200070101	883030I03M100	10m							
1200070774	884030I03M006	0.6m							

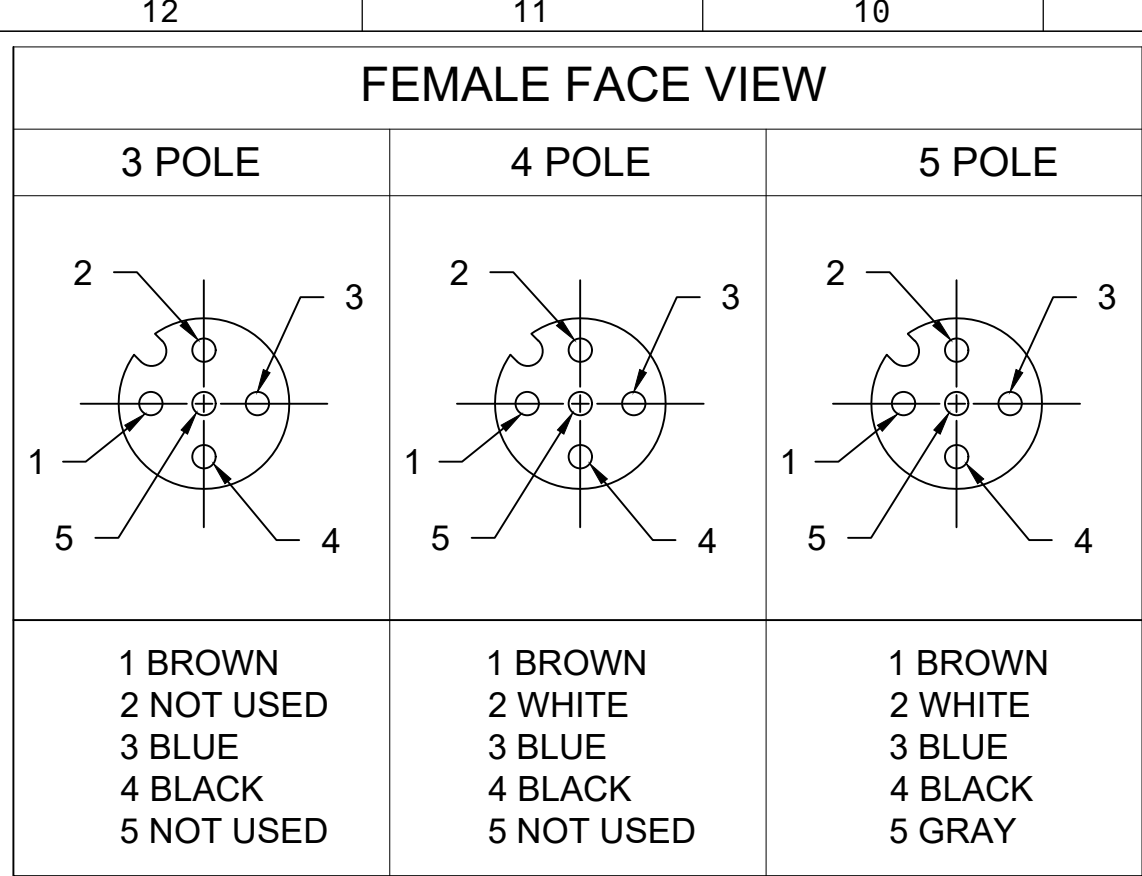
Part No.			Engineering No.			Cable Length			
I03									
1200070480	884030I03M010	1m							
1200070481	884030I03M020	2m							
1200668637	884030I03M020Y	2m							
1200071627	884030I03M0205	2m							
1200070785	884030I03M030	3m							
1200668372	884030I03M040	4m							
1200070483	884030I03M050	5m							
1200070484	884030I03M060	6m							
1200070485	884030I03M100	10m							
1200668638	884030I03M100Y	10m							
1200070961	885030I03M030	3m							
1200668642	885030I03M030Y	3m							
1200668165	885030I03M100	10m							
1200669218	885030I03M100Y	10m							
I20									
1200071338	884030I20M030	3m							
I26									
1200072106	885030I26M005	0.5m							
1200668082	885030I26M006	0.6m							
1200070890	885030I26M010	1m							
1200668639	885030I26M010Y	1m							
1200072359	885030I26M015	1.5m							
1200668736	885030I26M015Y	1.5m							
1200070891	885030I26M020	2m							
1200668640	885030I26M020Y	2m							
1200668281	885030I26M025	2.5m							
1200070892	885030I26M030	3m							
1200668641	885030I26M030Y	3m							
1200071279	885030I26M050	5m							
1200668873	885030I26M050Y	5m							
K03									
1200660878	884030K03M003	0.3m							
1200668003	884030K03M005	0.5m							
1200660880	884030K03M006	0.6m							
1200660881	884030K03M010	1m							
1200660883	884030K03M020	2m							
1200660887	884030K03M030	3m							
1200660891	884030K03M040	4m							
1200660895	884030K03M050	5m							
1200660898	884030K03M060	6m							
1200660899	884030K03M070	7m							
1200660900	884030K03M080	8m							
1200660901	884030K03M090	9m							
1200660902	884030K03M100	10m							

Part No.			Engineering No.			Cable Length			
K03									
1200668001	884030K03M110	11m							
1200660904	884030K03M120	12m							
1200660905	884030K03M140	14m							
1200660906	884030K03M150	15m							
1200660907	884030K03M160	16m							
1200661543	884030K03M180	18m							
1200660909	884030K03M200	20m							
1200668004	884030K03M240	24m							
1200660911	884030K03M250	25m							
1200661906	884030K03M500	50m							
1200661664	885030K03M005	0.5m							
1200661034	885030K03M010	1m							
1200661035	885030K03M020	2m							
1200661036	885030K03M030	3m							
1200661037	885030K03M040	4m							
1200661038	885030K03M050	5m							
1200661039	885030K03M060	6m							
1200661041	885030K03M080	8m							
1200661042	885030K03M090	9m							
1200661043	885030K03M100	10m							
1200661685	885030K03M120	12m							
1200661490	885030K03M140	14m							
1200661044	885030K03M150	15m							
1200661686	885030K03M180	18m							
1200661687	885030K03M230	23m							
1200661684	885030K03M300	30m							
K05									
1200660683	884030K05M003	0.3m							
1200660684	884030K05M005	0.5m							
1200660686	884030K05M006	0.6m							
1200660687	884030K05M010	1m							
1200660688	884030K05M015	1.5m							
1200660689	884030K05M020	2m							
1200660690	884030K05M030	3m							
1200669948	884030K05M032	3.2m							
1200660691	884030K05M040	4m							

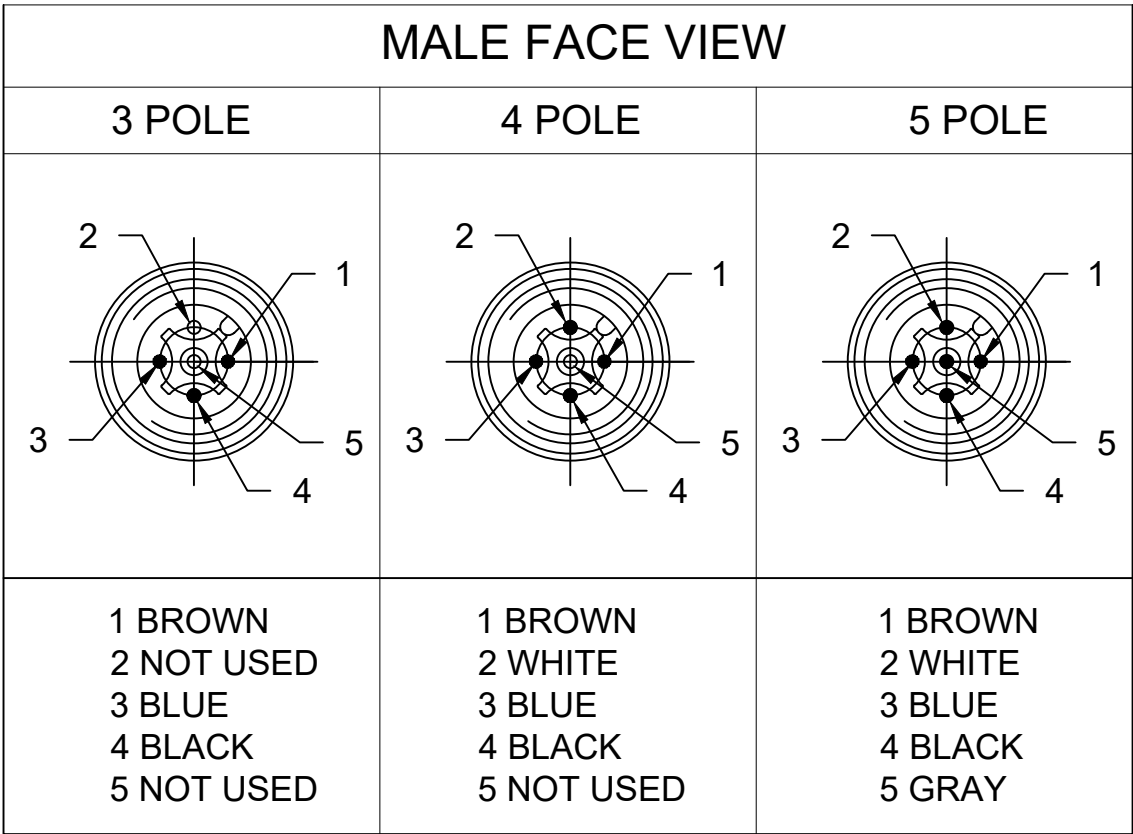
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K05									
1200660692	884030K05M050	5m							
1200668615	884030K05M050H	5m							
1200660693	884030K05M060	6m							
1200660915	884030K05M070	7m							
1200660694	884030K05M080	8m							
1200660695	884030K05M100	10m							
1200668616	884030K05M100H	10m							
1200660696	884030K05M120	12m							
1200660918	884030K05M140	14m							
1200660697	884030K05M150	15m							
1200660698	884030K05M180	18m							
1200661441	884030K05M190	19m							
1200660921	884030K05M200	20m							
1200660922	884030K05M210	21m							
1200660699	884030K05M230	23m							
1200661438	884030K05M250	25m							
1200665368	884030K05M280	28m							
1200660700	884030K05M300	30m							
1200661649	884030K05M400	40m							
1200669227	884030K05M500	50m							
1200669228	884030K05M600	60m							
P20									
1200668505	884030P20M010	1m							
1200668506	884030P20M020	2m							
1200668507	884030P20M050	5m							
1200668508	884030P20M100	10m							
P82									
1200668773	885030P82M0107	1m							
1200665012	885030P82M0307	3m							
S19									
1200661575	888030S19M030	3m							
1200661576	888030S19M050	5m							
1200661577	888030S19M100	10m							
1200661574	888030S19M120	12m							
S20									
1200668310	883030S20M005	0.5m							

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)											
ANGULAR TOL ± 1.0 °											
4 PLACES		±		EC NO: 823299			CSE M12 XP AC FE STR MA STR XM DE				
3 PLACES		±		DRWN: VISHAH2 2025/05/16							
2 PLACES		± 0.05		CHK'D: GGA 2025/05/29							
1 PLACE		± 0.3		APPR: GGA 2025/05/29							
0 PLACES		± 0.5		INITIAL REVISION:			PRODUCT CUSTOMER DRAWING				
				DRWN: JMARSZALEK 2016/09/19			DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
				APPR: RSILLER 2016/12/08			1200668165		PSD	000	A9
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES	MATERIAL NUMBER	CUSTOMER		SHEET NUMBER	
				A3-SIZE		120066	SEE PART LIST	GENERAL MARKET		4 OF 5	

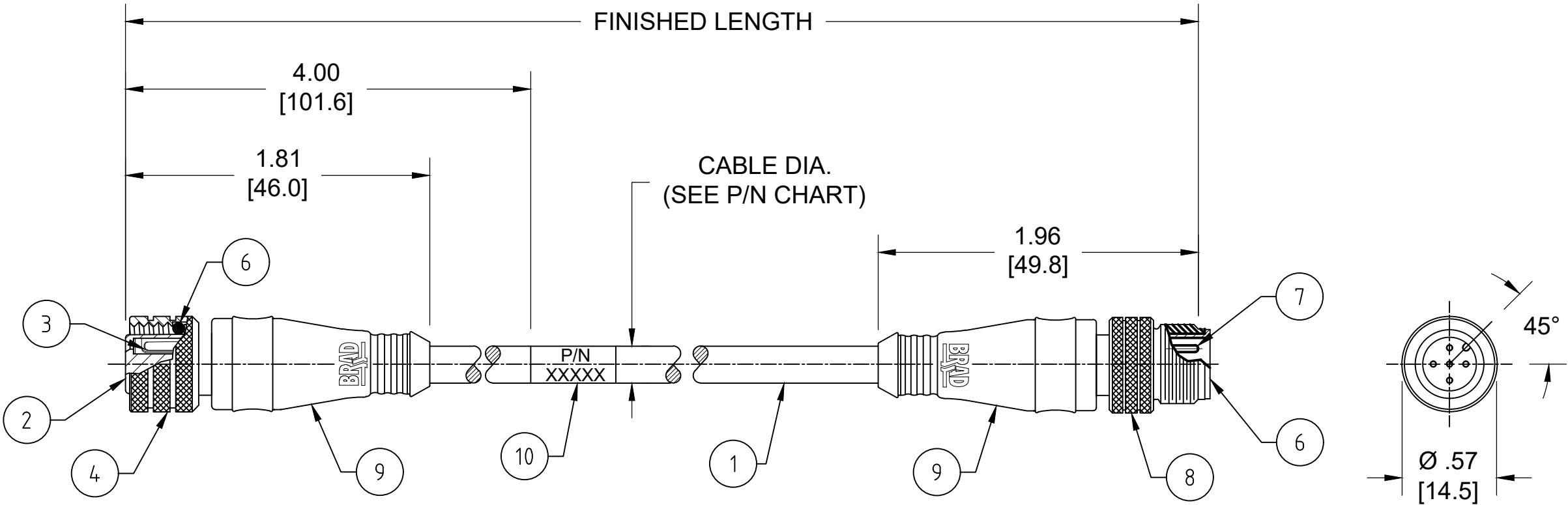
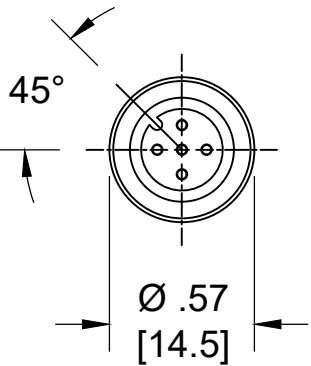
DOCUMENT STATUS	P1	RELEASE DATE	2025/05/29	13:28:17					
10	9	8	7	6	5	4	3	2	1



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]

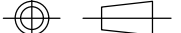
1.8 - 3.7M [6 - 12FT]: +88.9mm-0 [+3.50in-0]

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 INCH/MM		SCALE NTS		CURRENT REV DESC: ITEM-9 WAS TPE. ITEM-10 WAS BLACK/YELLOW. MODIFIED CABLE FLEX CHART, TEMP RATING AND PART NUMBER CHART			molex MICRO-CHANGE CORDSET, M12 3-5 POLE, MALE-FEMALE, STRAIGHT, SINGLE KEY, #22AWG TPE CABLE							
	GENERAL TOLERANCES (UNLESS SPECIFIED)														
					EC NO: 785985 DRWN: ABENJAMINLW 2024/05/07 CHK'D: PDODDAMANEMY 2024/05/13 APPR: BWOODMAN 2024/05/13						PRODUCT CUSTOMER DRAWING				
	4 PLACES ± ---- ± ----				INITIAL REVISION: DRWN: LSTEMMLE 2010/01/25 APPR: NSTAUDIG 2010/01/29			DOCUMENT NUMBER		DOC TYPE		DOC PART	REVISION		
	3 PLACES ± ---- ± ----							SD-120066-011		PSD		001	C		
	2 PLACES ± ---- ± ----														
1 PLACE ± ---- ± ----															
0 PLACES ± ---- ± ----															
ANGULAR TOL ± ---- °															
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
						C-SIZE		120066		SEE CHART		GENERAL MARKET		1 OF 1	