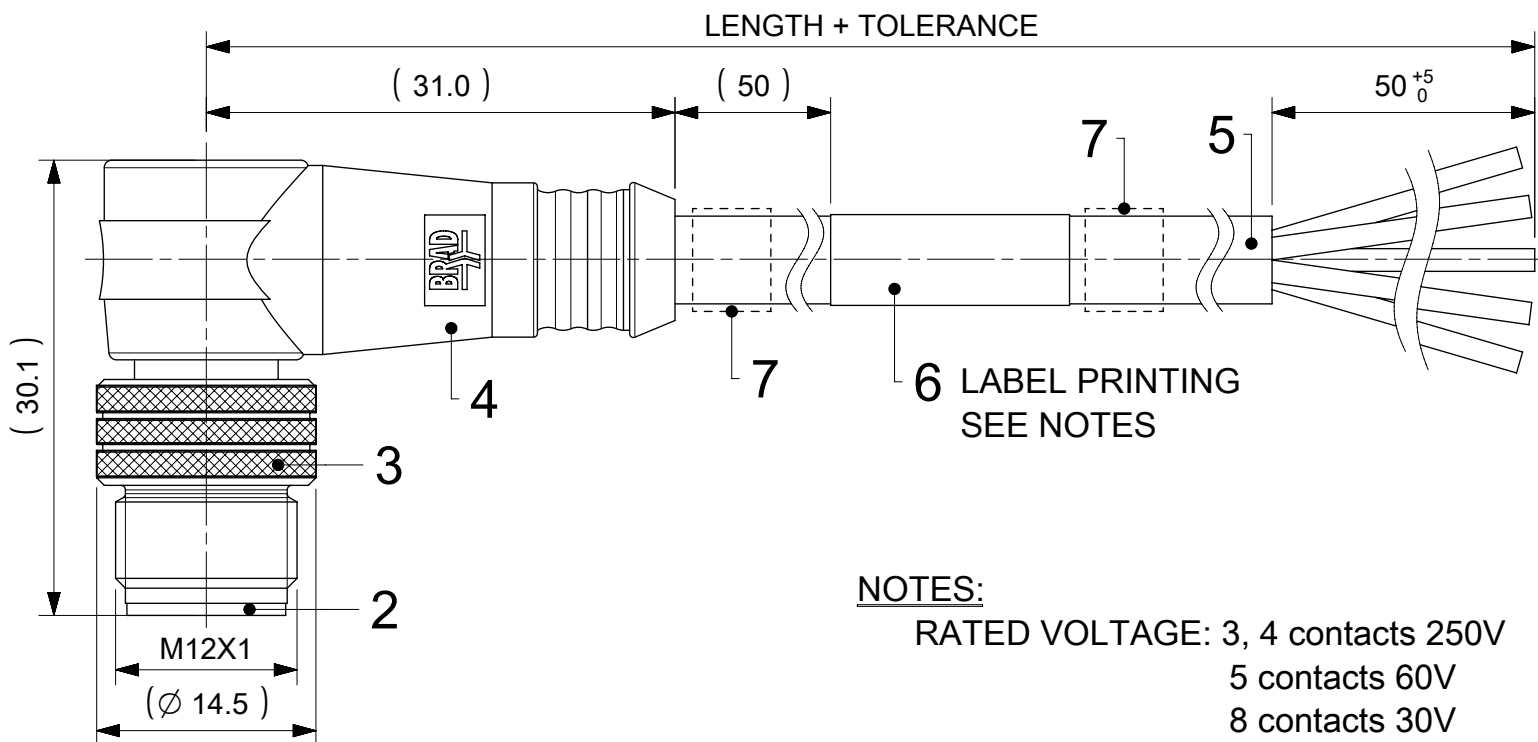
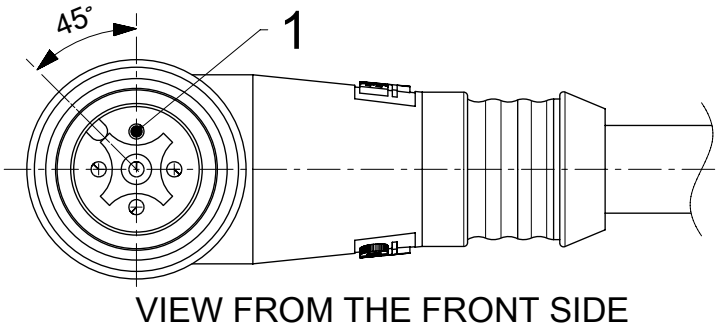


MALE PLUG M12 90° ANGLED

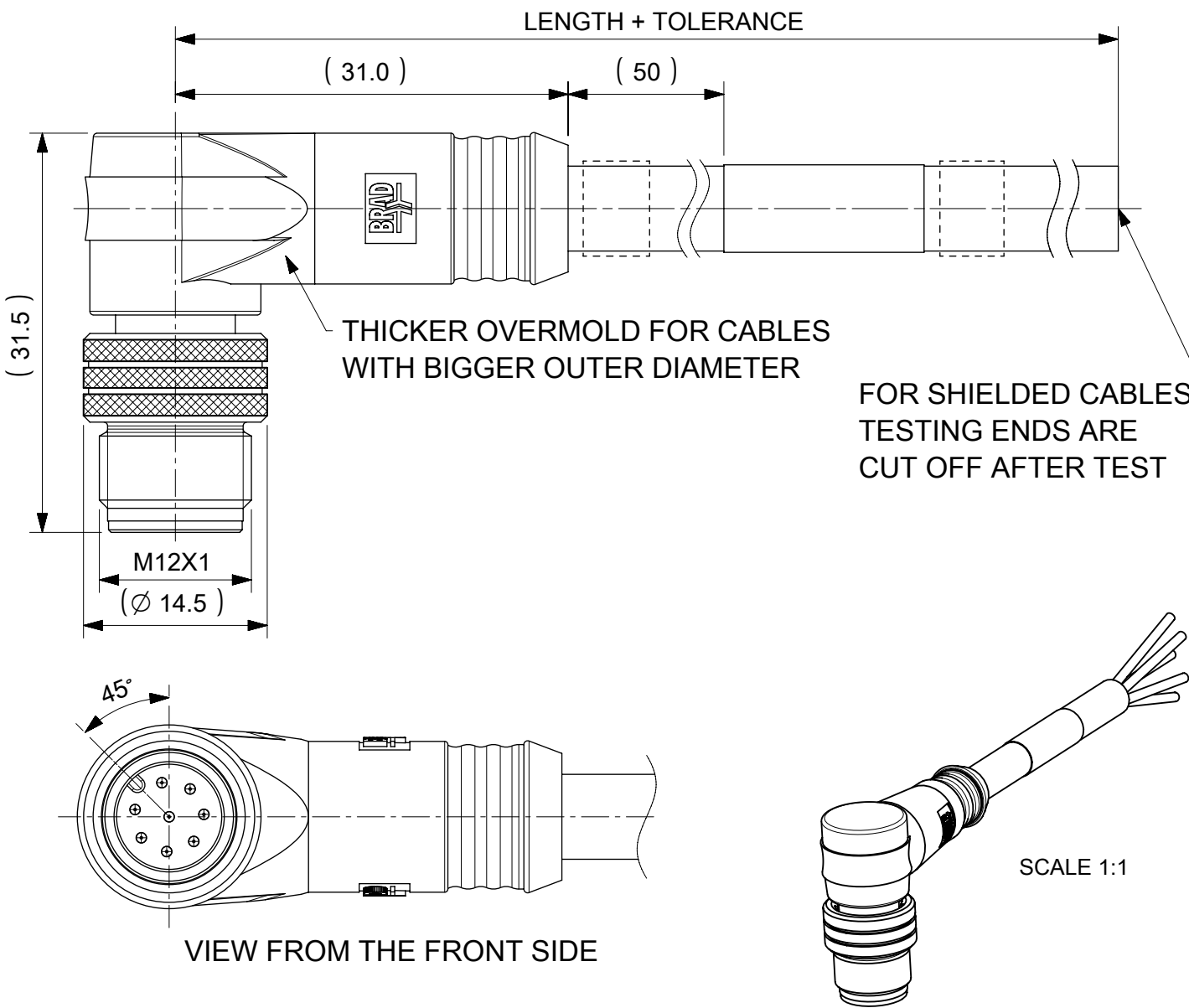


NOTES:
RATED VOLTAGE: 3, 4 contacts 250V
5 contacts 60V
8 contacts 30V
RATED CURRENT: 3, 4, 5 contacts 4A
8 contacts 2A
PROTECTION CLASS: IP 67
TEMPERATURE : SEE CABLE INFORMATION
ON SHEET 2
LABEL PRINTING ACC. STANDARD LABEL
INSTRUCTION (SEE SHEET 3)



CONTACTS POSITION FRONT VIEW:

3 CONTACTS		4 CONTACTS		5 CONTACTS		8 CONTACTS	
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	5	GREY
						6	PINK
						7	BLUE
						8	RED
CODING REQUIRED TO IEC 61076-2-101							



FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

7	0 OR 2	I/D CARRIER (SEE MATRIX)	PVC	TRANSPARENT
6	1	LABEL YELLOW	VINYL	---
5	-	CABLE	SEE SHEET 2	---
4	-	OVERMOULDING BLACK	TPU	---
3	1	COUPLING NUT MALE	BRASS	NICKEL
2	1	INSERT MALE BLACK	PUR	---
1	3 / 4 / 5 / 8	CONTACT M12 MALE	BRASS	SELECTIVE Au OVER Ni
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

FUNCTIONAL SYMBOLS FA = 0 FE = 0 FE = 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: PN AND CABLE TAKEN FROM DRAWING 1200658327, LAYOUT REVISED			molex				
	mm		2:1									
	GENERAL TOLERANCES (UNLESS SPECIFIED)				CSE M12 XP AC MA RA XM SE							
	ANGULAR TOL ± 1.0 °											
	4 PLACES		±		EC NO: 822575			PRODUCT CUSTOMER DRAWING				
	3 PLACES		±		DRWN: RSCHIEBER 2025/05/12							
	2 PLACES		± 0.05		CHK'D: RSILLER 2025/05/20							
	1 PLACE		± 0.3		APPR: RSILLER 2025/05/20							
	0 PLACES		± 0.5		INITIAL REVISION:			DOCUMENT NUMBER				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				DRWN: JMARSZALEK 2016/01/14			1200659138			DOC TYPE	DOC PART	REVISION
				APPR: RSILLER 2016/04/08						PSD	000	A9
				THIRD ANGLE PROJECTION			DRAWING	SERIES	MATERIAL NUMBER		CUSTOMER	
					A3-SIZE	120065	SEE SHEET 3		GENERAL MARKET		1 OF 4	

ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Others on request).

80X007XXXXXX

80=M12x1
Single ended

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

Heads style:
007=Plug Male
90° Angled

Cable type: See Table

Units:
M=Meter

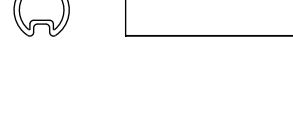
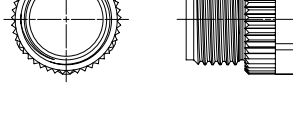
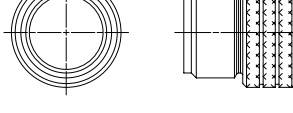
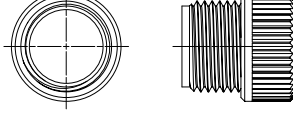
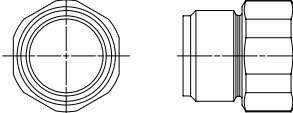
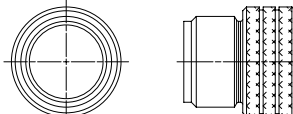
Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

Overmold color:
Blank (Standard)=Black
A=Grey / G=Black / Y=Yellow

Coupling Nut:
Blank (Standard) & 3=Knurled Brass Ni Plated
1=Hexagonal Stainless steel
5=Knurled Derlin
7=Knurled Brass Ni Plated, Teflon Coated
9=Knurled / Hexagonal Brass Ni Plated

H= 2 pcs. of I/D Carrier PVC Transparent

COUPLING NUTS



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
E02	8	0.25mm²	PVC BLACK	UL 2464/1729	C22.2 I/II A/B 80°C/300V	-30°C to +80°C, 10xO.D.	-10°C to +80°C, 15xO.D.	-	-
E03	3 / 4 / 5	0.34mm²	PVC BLACK	UL 2464/1729	C22.2 I/II A/B 80°C/300V	-30°C to +80°C, 10xO.D.	-10°C to +80°C, 15xO.D.	-	-
H08	8	0.25mm²	PUR BLACK LS0H	UL 21198/10493	C22.2 I/II A/B 80°C/300V	-40°C to +80°C, 5xO.D.	-25°C to +80°C, 10xO.D.	2 000 000 cycles at 20°C, Temp. range +5°C to +60°C	-
H09	3 / 4 / 5	0.34mm²	PUR BLACK LS0H	UL 21198/10493	C22.2 I/II A/B 80°C/300V	-40°C to +80°C, 5xO.D.	-25°C to +80°C, 10xO.D.	2 000 000 cycles at 20°C, Temp. range +5°C to +60°C	-
P02	8	0.25mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, 7xO.D.	-5°C to +80°C, 15xO.D.	-	-
P03	3 / 4 / 5	0.34mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, 7xO.D.	-5°C to +80°C, 15xO.D.	-	-
E13	3	18AWG	PVC YELLOW	UL 2661/1731	I/II A/B 80°C/300V	-	-	-	-
E52	4	0.34mm²	PVC GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
H69	4	0.20mm²	PUR GREY LS0H	-	-	-	-	-	-
I03	3 / 4 / 5	0.34mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
K03	4 / 5	0.34mm²	TPE YELLOW	-	I/II A/B 90°C/300V	-40°C to +105°C	-	-	-
K05	3 / 4 / 5	0.34mm²	TPE YELLOW	UL ITC E195601 or PLC	I/II A/B 90°C/300V	-	-	-	-
P12	5	0.50mm²	PUR BLACK	-	-	-30°C to +90°C	-5°C to +90°C	-	-
P82	4	0.34mm²	PUR IRR ORANGE	-	-	-50°C to +105°C, 5xO.D.	-40°C to +105°C, 7.5xO.D.	-	-
I02	8	0.25mm²	PVC GREY	-	-	-	-	-	-
S20	3 / 4	0.34mm²	PVC YELLOW	UL 2661/1731	C22.2 II A 105°C/300V	-30°C to +105°C	-	-	YES

FORMAT: mox-000-005-A3
REVISION: 11
DATE: 2021/05/01

FUNCTIONAL SYMBOLS

= 0

= 0

= 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

mm

SCALE

1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL

±

1.0 °

4 PLACES

±

3 PLACES

±

2 PLACES

±

0.05

1 PLACE

±

0.3

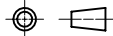
0 PLACES

±

0.5

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

THIRD ANGLE PROJECTION



DRAWING

A3-SIZE

SERIES

120065

MATERIAL NUMBER

SEE SHEET 3

CUSTOMER

GENERAL MARKET

SHEET NUMBER

2 OF 4

CURRENT REV DESC: PN AND CABLE TAKEN FROM DRAWING 1200658327, LAYOUT REVISED

EC NO: 822575

DRWN: RSCHIEBER

CHK'D: RSILLER

APPR: RSILLER

2025/05/12

2025/05/20

2025/05/20

INITIAL REVISION:

DRWN: JMARSZALEK

APPR: RSILLER

2016/01/14

2016/04/08

molex

CSE M12 XP AC MA RA XM SE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200659138

DOC TYPE

PSD

DOC PART

000

REVISION

A9

PART LIST

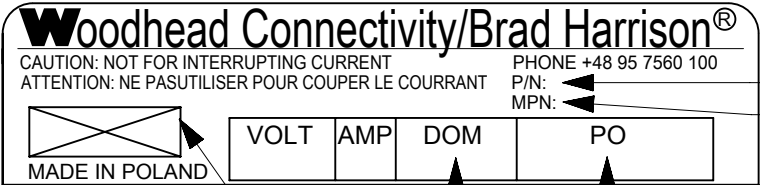
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1200658568	803007E03M030	3000
1200658569	803007E03M040	4000
1200060275	803007E03M050	5000
1200658506	803007E03M100	10000
4P CABLE E03		
1200657169	804007E03M003	300
1200062638	804007E03M006	600
1200060582	804007E03M010	1000
1200062680	804007E03M0101	1000
1200657170	804007E03M015	1500
1200061975	804007E03M020	2000
1200062681	804007E03M0201	2000
1200060583	804007E03M030	3000
1200658572	804007E03M040	4000
1200060584	804007E03M050	5000
1200062682	804007E03M0501	5000
1200658515	804007E03M0501H	5000
1200659081	804007E03M050Y	5000
1200657171	804007E03M060	6000
1200657172	804007E03M080	8000
1200062238	804007E03M100	10000
1200063575	804007E03M1001	10000
1200658516	804007E03M1001H	10000
1200657173	804007E03M120	12000
1200657174	804007E03M150	15000
1200063576	804007E03M1501	15000
1200064280	804007E03M200	20000
1200063656	804007E03M2001	20000
1200657325	804007E03M250	25000
1200658235	804007E03M2501	25000
1200657175	804007E03M300	30000
1200064175	804007E03M4001	40000
5P CABLE E03		
1200659138	805007E03M010	1000
1200658096	805007E03M020	2000
1200659247	805007E03M020Y	2000

MOLEX P/N	ENGINEERING No.	L [mm]
5P CABLE E03		
1200659540	805007E03M030	3000
1200062929	805007E03M050	5000
1200062498	805007E03M100	10000
1200659146	805007E03M200	20000
3P CABLE E13		
1200658229	803007E13M050	5000
4P CABLE E52		
1200063831	804007E52M100	10000
8P CABLE H08		
1200658755	808007H08M010	1000
1200658756	808007H08M015	1500
1200658757	808007H08M020	2000
1200658758	808007H08M030	3000
1200658759	808007H08M040	4000
1200658760	808007H08M050	5000
1200658761	808007H08M100	10000
3P CABLE H09		
1200658720	803007H09M010	1000
1200658721	803007H09M015	1500
1200658722	803007H09M020	2000
1200658723	803007H09M030	3000
1200658724	803007H09M040	4000
1200658725	803007H09M050	5000
1200658726	803007H09M100	10000
4P CABLE H09		
1200658734	804007H09M010	1000
1200658735	804007H09M015	1500
1200658736	804007H09M020	2000
1200658737	804007H09M030	3000
1200658738	804007H09M040	4000
1200658739	804007H09M050	5000
1200658740	804007H09M100	10000
5P CABLE H09		
1200658748	805007H09M010	1000
1200658749	805007H09M015	1500
1200658750	805007H09M020	2000
1200658751	805007H09M030	3000
1200658752	805007H09M040	4000

MOLEX P/N	ENGINEERING No.	L [mm]
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1200658754	805007H09M100	10000
1200659143	805007H09M200	20000
4P CABLE H69		
1200060587	804007H69M020	2000
8P CABLE P02		
1200658626	808007P02M010	1000
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1200658628	808007P02M030	3000
1200658629	808007P02M040	4000
1200658258	808007P02M050	5000
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3P CABLE P03		
1200658615	803007P03M010	1000
1200060288	803007P03M020	2000
1200060289	803007P03M030	3000
1200658614	803007P03M040	4000
1200062055	803007P03M050	5000
1200658618	803007P03M100	10000
4P CABLE P03		
1200657164	804007P03M003	300
1200064178	804007P03M005	500
1200657165	804007P03M006	600
1200061764	804007P03M010	1000
1200657166	804007P03M015	1500
1200060592	804007P03M020	2000
1200064394	804007P03M020G	2000
1200060593	804007P03M030	3000
1200652145	804007P03M040	4000
1200060594	804007P03M050	5000
1200652146	804007P03M060	6000
1200060595	804007P03M100	10000
1200657167	804007P03M150	15000
1200064294	804007P03M200	20000
1200657168	804007P03M500	50000
5P CABLE P03		
1200659230	805007P03M010	1000
1200060696	805007P03M015	1500

MOLEX P/N	ENGINEERING No.	L [mm]
5P CABLE P03		
1200060697	805007P03M020	2000
1200060699	805007P03M040	4000
1200658186	805007P03M050	5000
1200659249	805007P03M050Y	5000
1200652149	805007P03M060	6000
1200655006	805007P03M100	10000
1200659151	805007P03M150	15000
1200659231	805007P03M200	20000
5P CABLE P12		
1200658521	805007P12M006	600
1200062304	805007P12M015	1500
1200658522	805007P12M020	2000
1200659204	805007P12M050	5000
4P CABLE P82		
1200658005	804007P82M0107	1000
1200655015	804007P82M0507	5000
1200655016	804007P82M1007	10000
1200655017	804007P82M2007	20000
3P CABLE I03		
1200658596	803007I03M010	1000
1200658597	803007I03M040	4000
1200658598	803007I03M100	10000
4P CABLE I03		
1200658602	804007I03M010	1000
1200060589	804007I03M020	2000
1200658603	804007I03M030	3000
1200658604	804007I03M040	4000
5P CABLE I03		
1200658327	805007I03M015	1500
1200659172	805007I03M100A	10000
4P CABLE K03		
1200651686	804007K03M005	500
1200651687	804007K03M020	2000
1200651688	804007K03M050	5000
1200651689	804007K03M060	6000
1200652026	804007K03M100	10000
5P CABLE K03		
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LABEL PRINTING

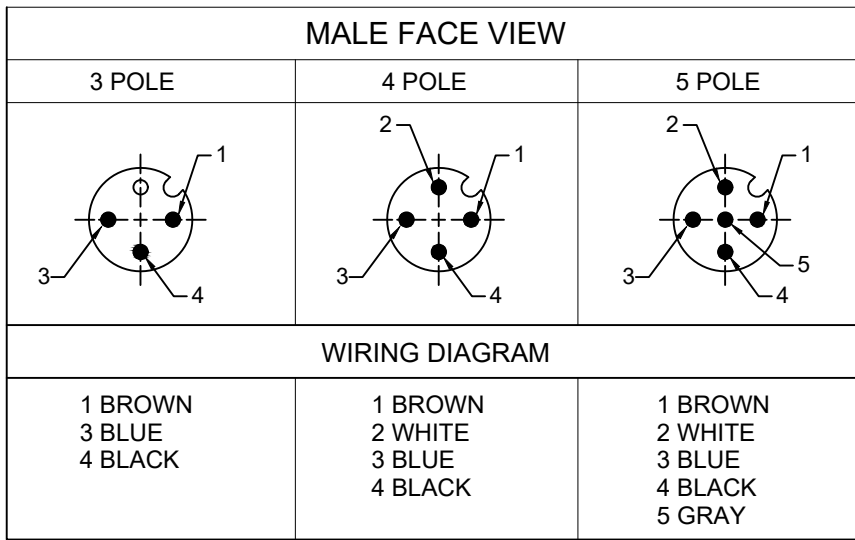


ENGINEERING NO.
MOLEX PN

PO NO.
PRODUCT. DATE

CERTIFICATION SYMBOLS

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
= 0	mm	1:1
= 0	GENERAL TOLERANCES (UNLESS SPECIFIED)	
= 0	ANGULAR TOL	± 1.0 °
DIVISIONAL SYMBOLS	4 PLACES	±
	3 PLACES	±
	2 PLACES	± 0.05
	1 PLACE	± 0.3
	0 PLACES	± 0.5
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION
		DRAWING
		SERIES
		MATERIAL NUMBER
		CUSTOMER
		SHEET NUMBER



- NOTES:
- 1. MATERIAL: AS NOTED
 - 2. FINISH: AS NOTED
 - 3. ELECTRICAL:
VOLTAGE: 250VAC/VDC
CURRENT: 4A
 - 4. TEMP RATING: -20°TO +105°C
 - 5. PROTECTION: IP67 (WHEN MATED)
 - 6. COUPLING THREAD: M12X1
 - 7. UL RECOGNIZED FILE: E152210
CSA CERTIFIED FILE: LR6837
 - 8. ALL DIMENSIONS ARE FOR REFERENCE
UNLESS TOLERANCED OR NOTED OTHERWISE

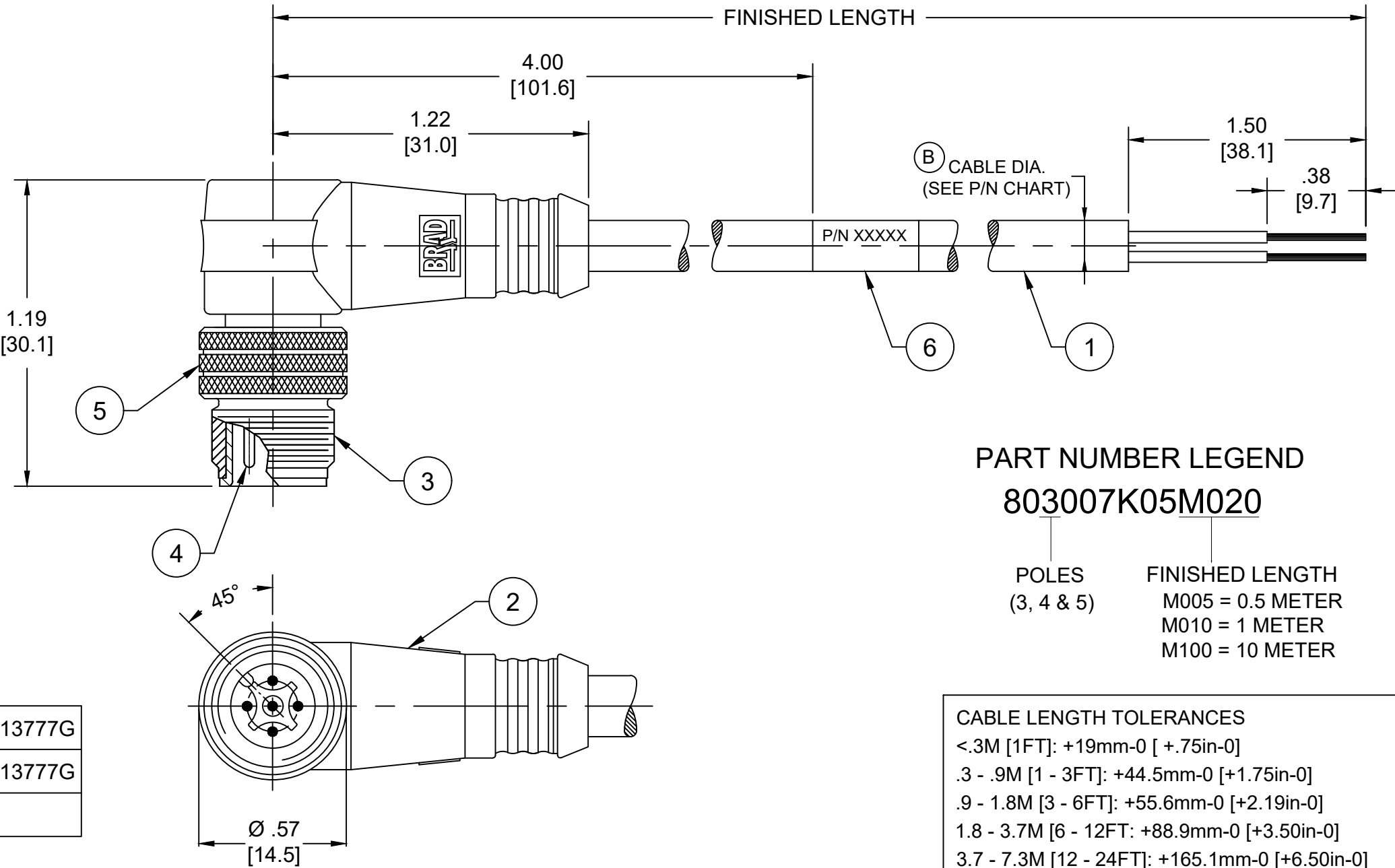
CABLE FLEX CHARACTERISTICS

TORSIONAL FLEX TEST	10 MILLION CYCLES PER MIL-C-13777G
BEND FLEX TEST	10 MILLION CYCLES PER MIL-C-13777G
WELD SLAG RESISTANCE	WOODHEAD STANDARD S-300

6	WRAP LABEL	VINYL	BLACK/YELLOW
5	COUPLING NUT	BRASS	NICKEL PLATED
4	PIN CONTACT	COPPER ALLOY	GOLD OVER NICKEL
3	MALE INSERT	PUR	BLACK
2	OVERMOLD	TPC	YELLOW
1	CABLE #22/3-5	TPE JACKET	YELLOW
ITEM	DESCRIPTION	MATERIAL	FINISH

DOCUMENT STATUS | P1 | RELEASE DATE | 2022/05/04 | 21:13:40

FORMAT: ACAD-Ib-prod-A3
REVISION: 0
DATE: 2020/11/14



PART NUMBER LEGEND

803007K05M020

POLES
(3, 4 & 5)

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 DIMENSION UNITS SCALE CURRENT REV DESC: ITEM #2 WAS TPE. ADDED CABLE DIA. MODIFIED MATERIAL NUMBER CHART GENERAL TOLERANCES (UNLESS SPECIFIED) DIVISIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										molex				
	INCH/MM		SCALE NTS		EC NO: 704134 DRWN: ABENJAMINLW 2021/09/27 CHK'D: RSTONE 2022/04/27 APPR: BWOODMAN 2022/05/04				MICRO-CHANGE CORDSET, M12, 3-5 POLE, MALE 90DEG, SINGLE KEY, #22 AWG TPE HI-FLEX						
	GENERAL TOLERANCES (UNLESS SPECIFIED)														
		mm		INCH											
	4 PLACES	±----		±----											
	3 PLACES	±----		±----											
	2 PLACES	±----		±----											
	1 PLACE	±----		±----	INITIAL REVISION:										
	0 PLACES	±----		±----	DRWN: RSTONE 2018/11/01 APPR: BWOODMAN 2018/11/30				DOCUMENT NUMBER		DOC TYPE		DOC PART	REVISION	
	ANGULAR TOL ± ---- °								SD-120065-115		PSD		001	B	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING A3-SIZE		SERIES 120065		MATERIAL NUMBER SEE CHART		CUSTOMER GENERAL MARKET		SHEET NUMBER 1 OF 1	