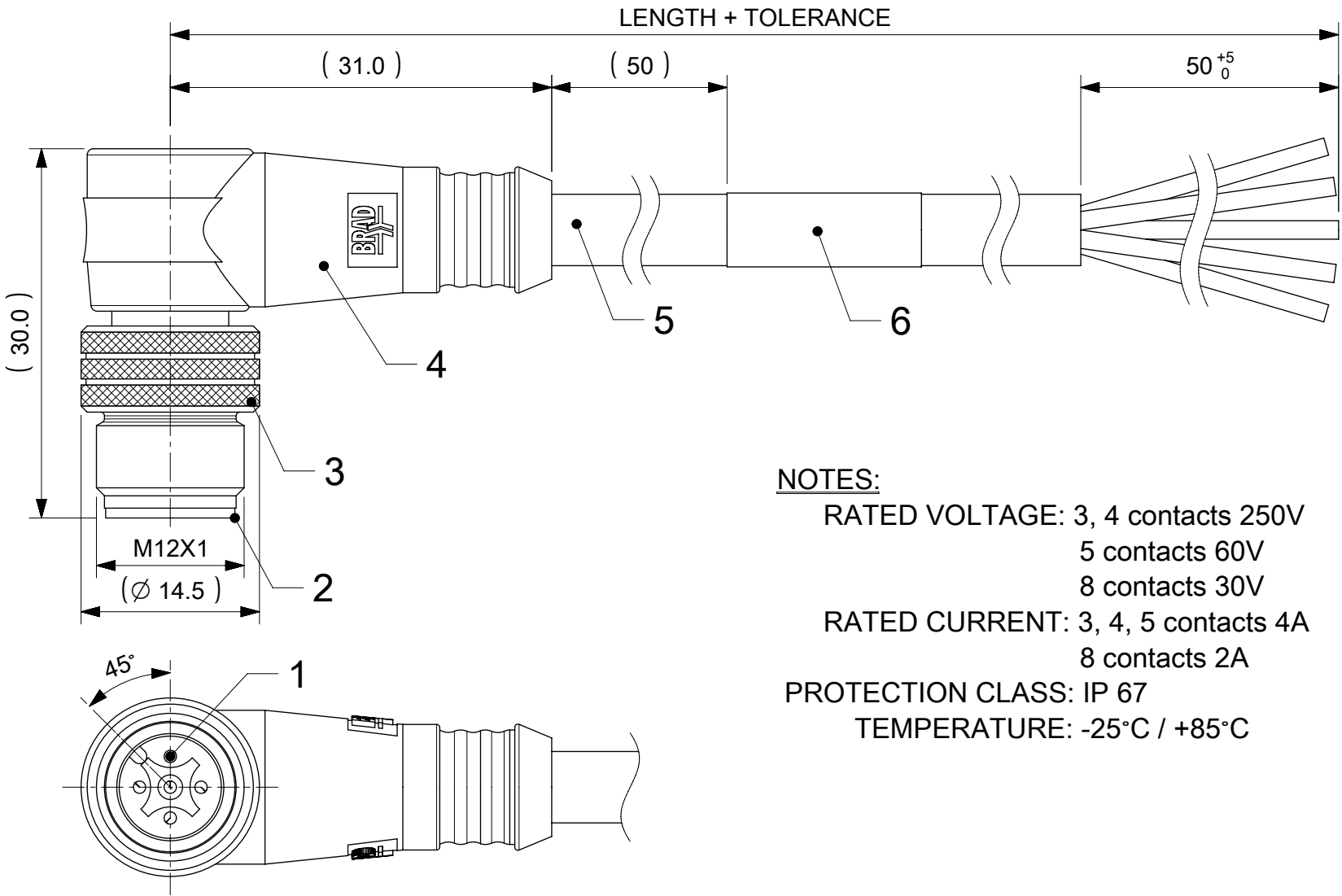
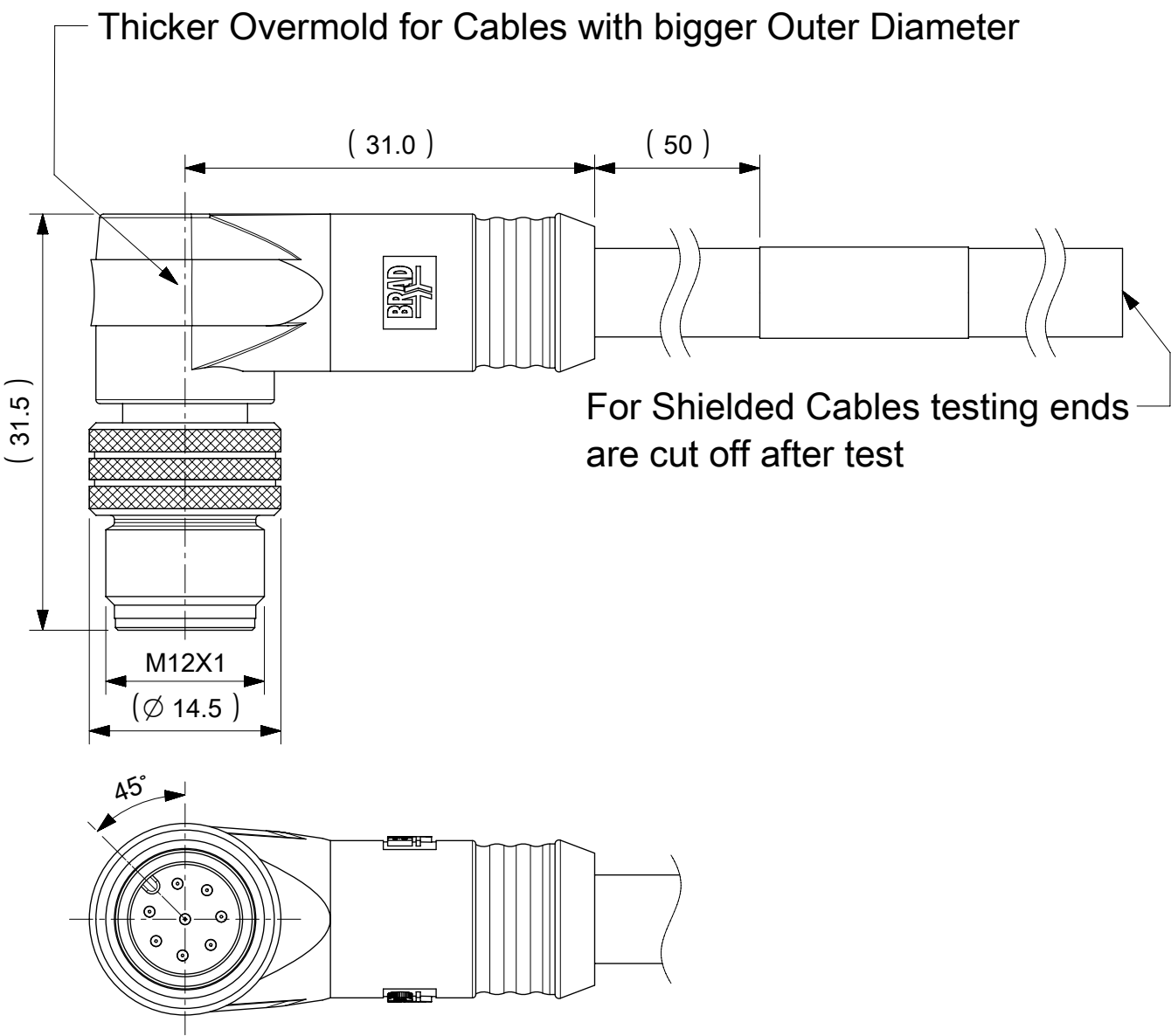


MALE PLUG M12 90° ANGLED



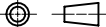
NOTES:
RATED VOLTAGE: 3, 4 contacts 250V
5 contacts 60V
8 contacts 30V
RATED CURRENT: 3, 4, 5 contacts 4A
8 contacts 2A
PROTECTION CLASS: IP 67
TEMPERATURE: -25°C / +85°C



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

6	1	LABEL YELLOW	VINYL	---
	-	PRINTING FOR CABLES lxx	---	---
5	-	CABLE	SEE SHEET 2	---
4	-	OVERMOLDING 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
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
DIMENSION UNITS		SCALE		molex CSE M12 XP AC MA RA XM SE UNSH PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER 1200658327 DOC TYPE PSD DOC PART 000 REVISION A4
mm		2:1		
GENERAL TOLERANCES (UNLESS SPECIFIED)		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#51514486		
ANGULAR TOL ± 1.0 °		EC NO: 774109		
4 PLACES ±		DRWN: VISHAH2 2023/12/20		
3 PLACES ±		CHK'D: GGA 2024/01/29		
2 PLACES ± 0.05		APPR: GGA 2024/01/29		
1 PLACE ± 0.1		INITIAL REVISION:		
0 PLACES ± 0.2		DRWN: JMARSZALEK 2016/01/14		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPR: RSILLER 2016/04/08		
THIRD ANGLE PROJECTION		DRAWING		
		SERIES		
A3-SIZE		120065		
MATERIAL NUMBER		CUSTOMER		
SEE TABLE		GENERAL MARKET		
SHEET NUMBER		1 OF 3		

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
C=Centimeter

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

Overmold color:
Blank (Standard)=Black TPU
Blank=Yellow TPU for cables A09,S19,S20,S26
Blank=Yellow TPE-E for cables K03,K05
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
Blank=7 for cables I20, I26, K03, K05, P82, S26
9=Knurled / Hexagonal Brass Ni Plated SW13

Options

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 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
E13	3	18AWG	PVC YELLOW	UL 2661/1731	I/II A/B 80°C/300V	-	-	-	-
E52	3 / 4 / 8	0.34mm²	PVC GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
H69	4	0.20mm²	PUR GREY LS0H	-	-	-	-	-	-
I02	3 / 4 / 8	0.25mm²	PVC CEI GREY	-	-	-30°C to +70°C	-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
K05	3 / 4 / 5	0.34mm²	TPE YELLOW	UL ITC E195601 or PLC	I/II A/B 90°C/300V	-	-	-	-
P12	3 / 5	0.50mm²	PUR BLACK	-	-	-30°C to +90°C	-5°C to +90°C	-	-
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.	-	-
S20	3 / 4 / 5	0.34mm²	PVC YELLOW	UL 2661/1731	C22.2 II A 105°C/300V	-30°C to +105°C	-	-	YES

CABLE LENGTH TOLERANCES

OVER	UP TO AND INCLUDING	TOLERANCES
0	305mm	+19mm
305mm	915mm	+45mm
915mm	1830mm	+56mm
1830mm	3660mm	+89mm
3660mm	7320mm	+165mm
7320mm	14640mm	+317mm
14640mm	30500mm	+610mm
30500mm	>	+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 ± 0.1

0 PLACES ± 0.2

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#51514486

EC NO: 774109
DRWN: VISHAH2
CHK'D: GGA
APPR: GGA

2023/12/20
2024/01/29
2024/01/29

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

2016/01/14
2016/04/08

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

moLEX

CSE M12 XP AC MA RA XM SE UNSH

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200658327

DOC TYPE

PSD

DOC PART

000

REVISION

A4

SEE TABLE

GENERAL MARKET

2 OF 3

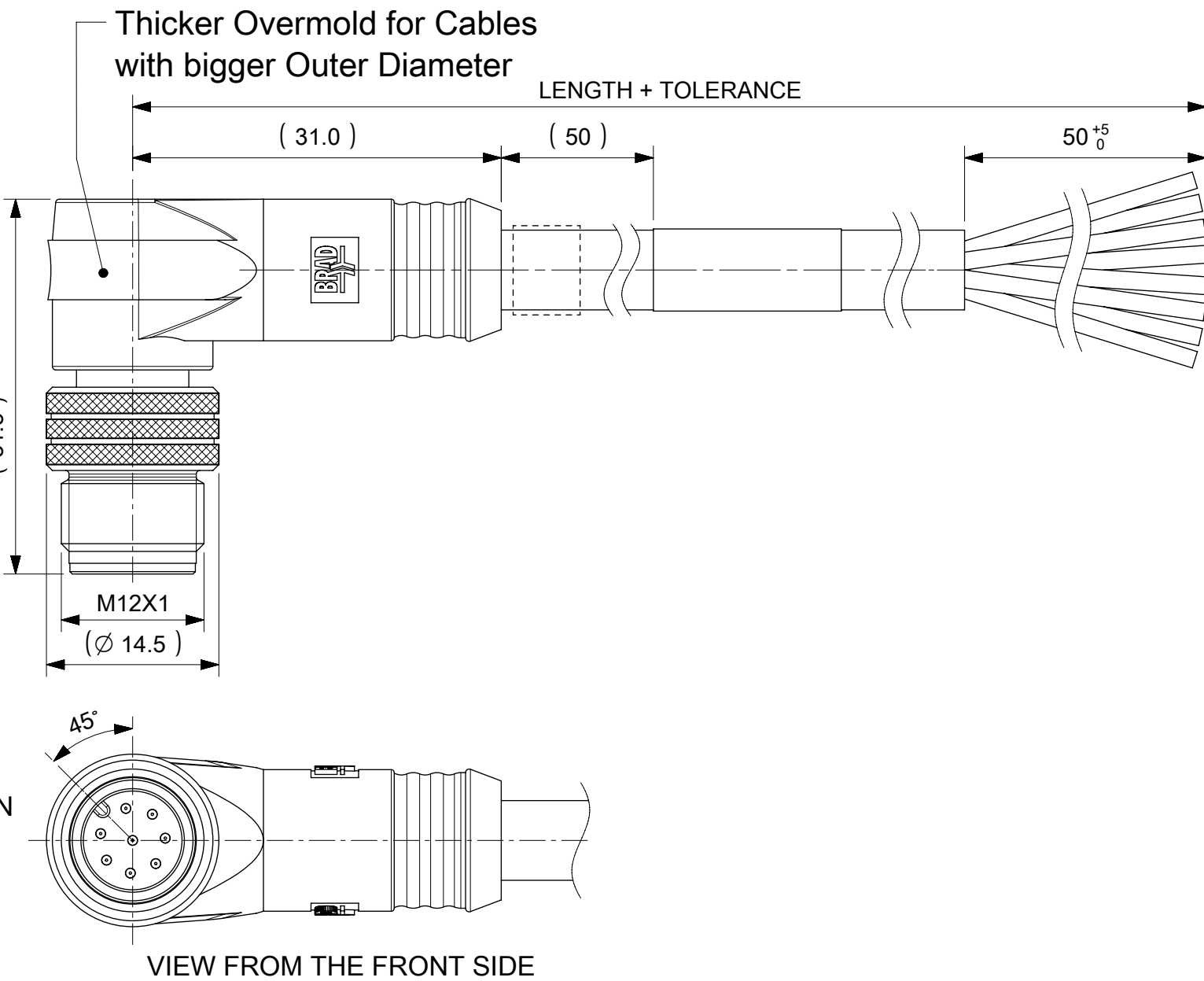
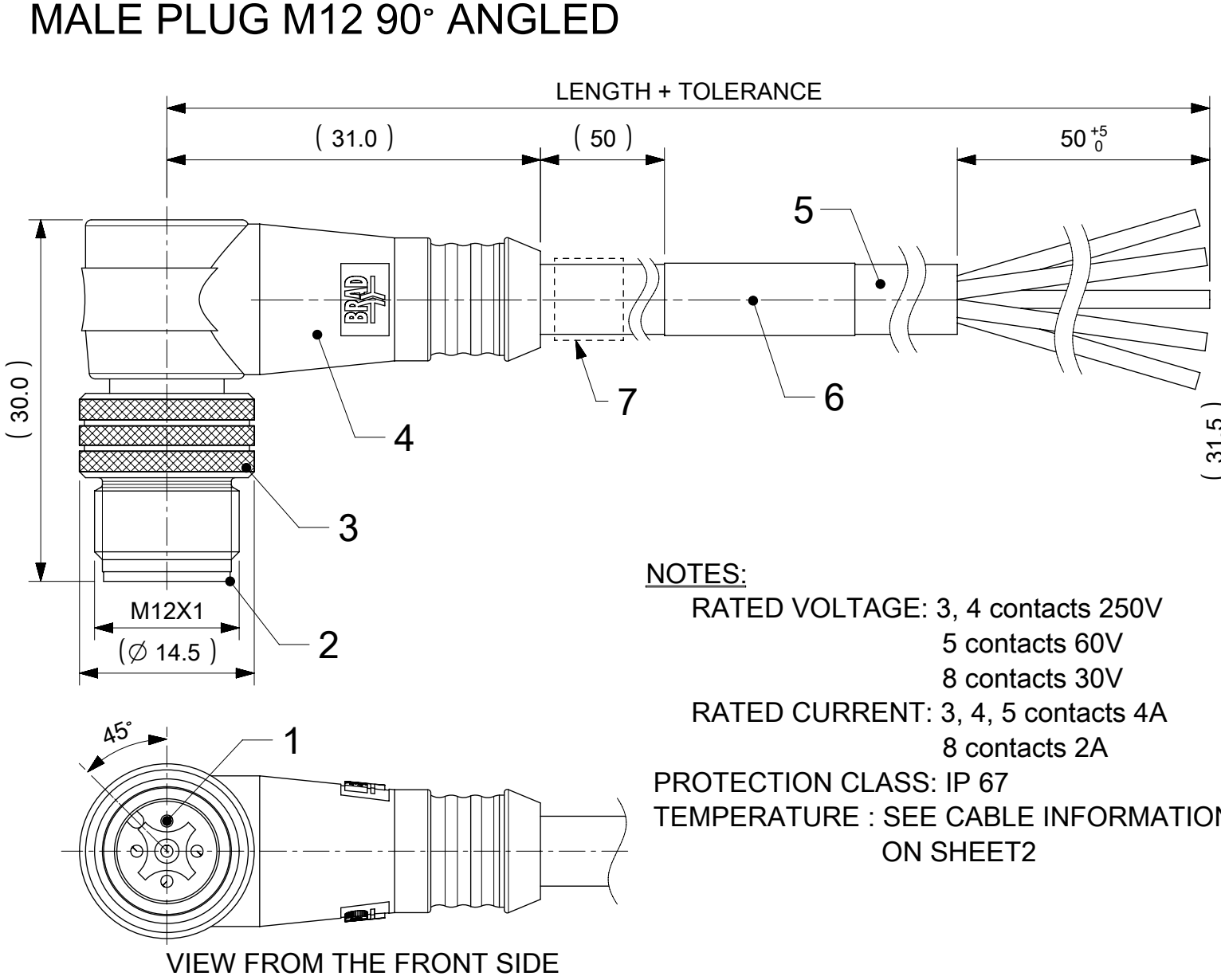
DOCUMENT STATUS P1 RELEASE DATE 2024/01/29 05:14:34

FORMAT: master-b-prod-A3 REVISION: 11 DATE: 2021/05/01

987654321

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PART LIST									
No.	Part No.	Engineering No.	Cable Length						
1	1200060293	803007S20M050	5m						
2	1200060589	804007I03M020	2m						
3	1200060599	804007S20M100	10m						
4	1200062086	804007S20M050	5m						
5	1200062304	805007P12M015	1,5m						
6	1200063831	804007E52M100	10m						
7	1200658229	803007E13M050	5m						
8	1200658327	805007I03M015	1,5m						
9	1200658521	805007P12M006	0,6m						
10	1200658522	805007P12M020	2m						
11	1200658596	803007I03M010	1m						
12	1200658597	803007I03M040	4m						
13	1200658598	803007I03M100	10m						
14	1200658602	804007I03M010	1m						
15	1200658603	804007I03M030	3m						
16	1200658604	804007I03M040	4m						
17	1200658963	804007S20M1001	10m						
18	1200658964	804007S20M0501	5m						
19	1200659204	805007P12M050	5m						
20	1200659375	804007S20M350	35m						

MALE PLUG M12 90° ANGLED



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
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
DIMENSION UNITS		SCALE		molex CSE M12 XP AC MA RA XM SE UNSH PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER 1200659138 DOC TYPE PSD DOC PART 000 REVISION A8
mm		2:1		
GENERAL TOLERANCES (UNLESS SPECIFIED)		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#514486		
ANGULAR TOL ± 1.0 °		EC NO: 774109		
4 PLACES	±	DRWN: VISHAH2	2023/12/20	
3 PLACES	±	CHK'D: GGA	2024/01/29	
2 PLACES	± 0.05	APPR: GGA	2024/01/29	
INITIAL REVISION:		2016/01/14		
1 PLACE	± 0.3	DRWN: JMARSZALEK	2016/04/08	
0 PLACES	± 0.5	APPR: RSILLER		
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	
		1 OF 3		

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

OPTIONS

8 0 X 0 0 7 X X X X X X X X

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

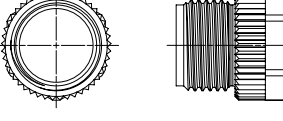
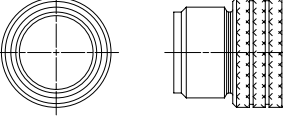
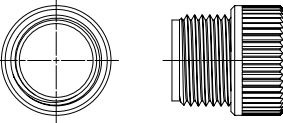
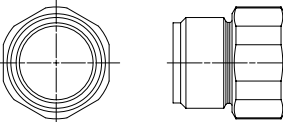
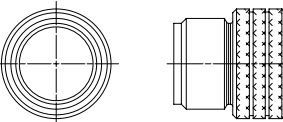
Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

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 Delrin
7=Knurled Brass Ni Plated, Teflon Coated
9=Knurled / Hexagonal Brass Ni Plated

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

COUPLING NUTS

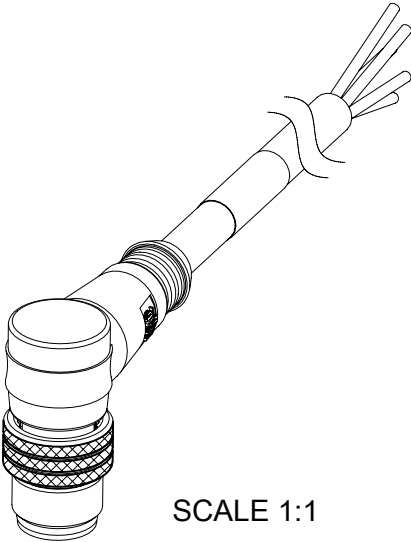


CABLE INFORMATION (for more information see Cable Data Sheet).

CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	DRAG CHAIN	SHIELD
E02	3 / 4 / 5 / 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	3 / 4 / 5 / 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	3 / 4 / 5 / 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	3 / 4 / 8	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	3 / 5	0.50mm²	PUR BLACK	-	-	-30°C to +90°C	-5°C to +90°C	-	-
P82	3 / 4 / 5	0.34mm²	PUR IRR ORANGE	-	-	-50°C to +105°C, 5xO.D.	-40°C to +105°C, 7.5xO.D.	-	-

CABLE LENGTH TOLERANCES

OVER	UP TO AND INCLUDING	TOLERANCES
0	305mm	+19mm
305mm	915mm	+45mm
915mm	1830mm	+56mm
1830mm	3660mm	+89mm
3660mm	7320mm	+165mm
7320mm	14640mm	+317mm
14640mm	30500mm	+610mm
30500mm	>	+2% of finished length



SCALE 1:1

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#514486				molex			
mm		1:1									
GENERAL TOLERANCES (UNLESS SPECIFIED)				CSE M12 XP AC MA RA XM SE UNSH							
ANGULAR TOL ± 1.0 °											
4 PLACES		±								EC NO: 774109	
3 PLACES		±								DRWN: VISHAH2 2023/12/20	
2 PLACES		± 0.05								CHK'D: GGA 2024/01/29	
1 PLACE		± 0.3		APPR: GGA 2024/01/29		PRODUCT CUSTOMER DRAWING					
0 PLACES		± 0.5		INITIAL REVISION:		DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				DRWN: JMARSZALEK 2016/01/14		1200659138		PSD	000	A8	
				APPR: RSILLER 2016/04/08							
THIRD ANGLE PROJECTION				DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER	SHEET NUMBER
				A3-SIZE		120065		SEE SHEET 3		GENERAL MARKET	2 OF 3

DOCUMENT STATUS	P1	RELEASE DATE	2024/01/29	05:14:37
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PART LIST

No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length
1	1200060273	803007E03M020	2m	36	1200651688	804007K03M050	5m	71	1200658723	803007H09M030	3m	106	1200657170	804007E03M015	1.5m
2	1200060275	803007E03M050	5m	37	1200651691	804007K05M020	2m	72	1200658724	803007H09M040	4m	107	1200657171	804007E03M060	6m
3	1200060288	803007P03M020	2m	38	1200651693	804007K05M050	5m	73	1200658725	803007H09M050	5m	108	1200657172	804007E03M080	8m
4	1200060289	803007P03M030	3m	39	1200651800	808007P02M020	2m	74	1200658726	803007H09M100	10m	109	1200657173	804007E03M120	12m
5	1200060582	804007E03M010	1m	40	1200652026	804007K03M100	10m	75	1200658734	804007H09M010	1m	110	1200657174	804007E03M150	15m
6	1200060583	804007E03M030	3m	41	1200652145	804007P03M040	4m	76	1200658735	804007H09M015	1.5m	111	1200657175	804007E03M300	30m
7	1200060584	804007E03M050	5m	42	1200652149	805007P03M060	6m	77	1200658736	804007H09M020	2m	112	1200657325	804007E03M250	25m
8	1200060589	804007I03M020	2m	43	1200652159	805007K03M020	2m	78	1200658737	804007H09M030	3m	113			
9	1200060592	804007P03M020	2m	44	1200652161	805007K03M050	5m	79	1200658738	804007H09M040	4m	114			
10	1200060593	804007P03M030	3m	45	1200655006	805007P03M100	10m	80	1200658739	804007H09M050	5m	115			
11	1200060594	804007P03M050	5m	46	1200658096	805007E03M020	2m	81	1200658740	804007H09M100	10m	116			
12	1200060595	804007P03M100	10m	47	1200658186	805007P03M050	5m	82	1200658748	805007H09M010	1m	117			
13	1200060696	805007P03M015	1.5m	48	1200658229	803007E13M050	5m	83	1200658749	805007H09M015	1.5m	118			
14	1200060697	805007P03M020	2m	49	1200658235	804007E03M2501	25m	84	1200658750	805007H09M020	2m	119			
15	1200060699	805007P03M040	4m	50	1200658327	805007I03M015	1.5m	85	1200658751	805007H09M030	3m	120			
16	1200061764	804007P03M010	1m	51	1200658506	803007E03M100	10m	86	1200658752	805007H09M040	4m	121			
17	1200061975	804007E03M020	2m	52	1200658515	804007E03M0501H	5m	87	1200658753	805007H09M050	5m	122			
18	1200062055	803007P03M050	5m	53	1200658516	804007E03M1001H	10m	88	1200658754	805007H09M100	10m	123			
19	1200062238	804007E03M100	10m	54	1200658522	805007P12M020	2m	89	1200658757	808007H08M020	2m	124			
20	1200062498	805007E03M100	10m	55	1200658567	803007E03M010	1m	90	1200659138	805007E03M010	1m	125			
21	1200062638	804007E03M006	0.6m	56	1200658568	803007E03M030	3m	91	1200659143	805007H09M200	20m	126			
22	1200062680	804007E03M0101	1m	57	1200658569	803007E03M040	4m	92	1200659146	805007E03M200	20m	127			
23	1200062681	804007E03M0201	2m	58	1200658572	804007E03M040	4m	93	1200659151	805007P03M150	15m	128			
24	1200062682	804007E03M0501	5m	59	1200658596	803007I03M010	1m	94	1200659204	805007P12M050	5m	129			
25	1200062929	805007E03M050	5m	60	1200658597	803007I03M040	4m	95	1200659230	805007P03M010	1m	130			
26	1200063575	804007E03M1001	10m	61	1200658598	803007I03M100	10m	96	1200659231	805007P03M200	20m	131			
27	1200063576	804007E03M1501	15m	62	1200658602	804007I03M010	1m	97	1200659247	805007E03M020Y	2m	132			
28	1200063656	804007E03M2001	20m	63	1200658603	804007I03M030	3m	98	1200659249	805007P03M050Y	5m	133			
29	1200063831	804007E52M100	10m	64	1200658604	804007I03M040	4m	99	1200659540	805007E03M030	3m	134			
30	1200064175	804007E03M4001	40m	65	1200658614	803007P03M040	4m	100	1200657164	804007P03M003	0.3m	135			
31	1200064178	804007P03M005	0.5m	66	1200658615	803007P03M010	1m	101	1200657165	804007P03M006	0.6m	136			
32	1200064280	804007E03M200	20m	67	1200658618	803007P03M100	10m	102	1200657166	804007P03M015	1.5m	137			
33	1200064294	804007P03M200	20m	68	1200658720	803007H09M010	1m	103	1200657167	804007P03M150	15m	138			
34	1200064394	804007P03M020G	2m	69	1200658721	803007H09M015	1.5m	104	1200657168	804007P03M500	50m	139			
				70	1200658722	803007H09M020	2m	105	1200657169	804007E03M003	0.3m	140			

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#514486

EC NO: 774109
DRWN: VISHAH2
CHK'D: GGA
APPR: GGA

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

2023/12/20

2024/01/29

2024/01/29

2016/01/14

2016/04/08

A3-SIZE

120065

SEE PART LIST

GENERAL MARKET

3 OF 3

molex

CSE M12 XP AC MA RA XM SE UNSH

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200659138

DOC TYPE

PSD

DOC PART

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REVISION

A8