

VOLTAGE RATING: 3/4P 250V
VOLTAGE RATING: 5P 60V
AMPERAGE RATING: 3/4/5P 4A
INSULATION RESISTANCE: $10^8 \Omega$ MIN.
MATING CYCLES: MIN. 100
ENVIRONMENTAL:
PROTECTION: IP67
OPERATING TEMPERATURE: -25°C TO +85°C

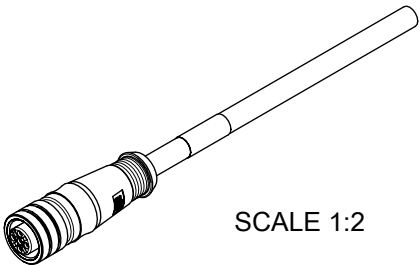
Technical drawing of a cable assembly. The drawing shows a cross-section of the assembly with various dimensions and labels. The main dimensions are:

- Overall length: $L + Tol.$ (SEE PART LIST)
- Length of the first section: (46)
- Length of the second section: 50 ± 5
- Length of the third section: (46)
- Length of the fourth section: (46)

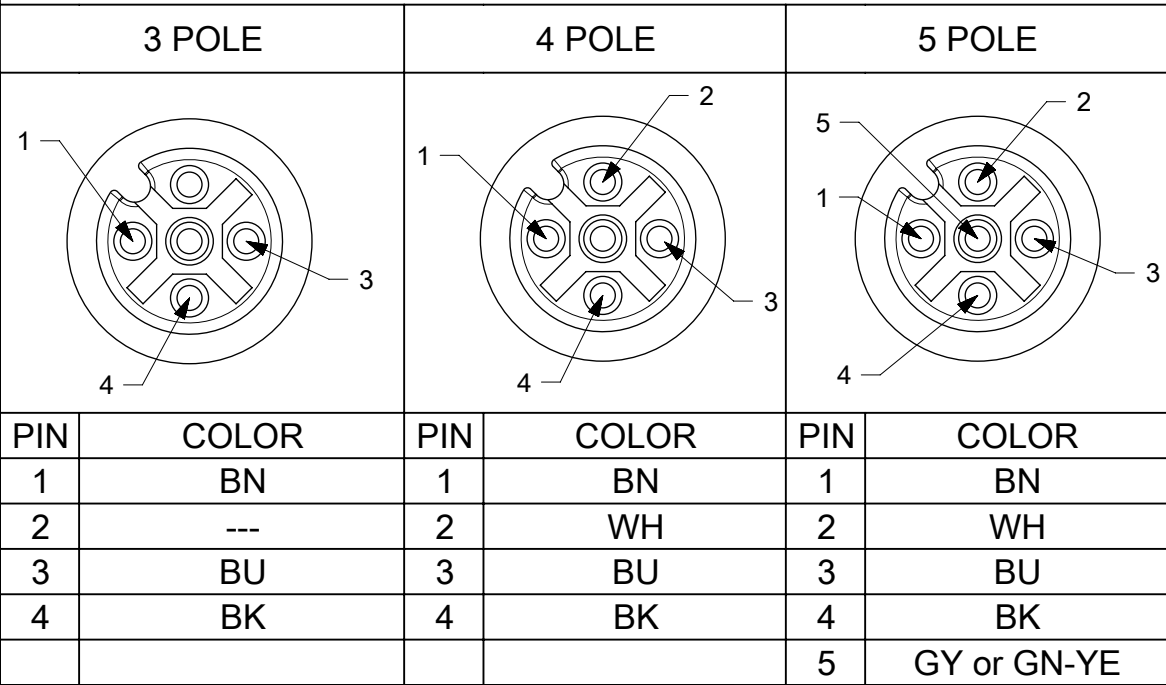
The drawing also includes labels for various components and features:

- 4: Points to the first section of the assembly.
- 5: Points to the "OVERMOULD WITH BRAD LOGO" section.
- 6: Points to the cable section.
- 7: Points to the cable diameter, labeled "Cable dia (See cable list)".
- 8: Points to the cable section.
- 9: Points to the "OVERMOULD WITH BRAD LOGO" section.

The drawing also shows a cross-section of the assembly with a diameter of $\varnothing (14.5)$ M12x1. The assembly is shown with a break line in the middle, indicating it is a long component.



VIEWS FROM THE FRONT SIDE



BOM

9	1	SHEILD SLEEVE	BRASS	Ni-PLATED
8	1	LABEL	VINYL	YELLOW
7	2	ID-CARRIERS	---	---
6	-	CABLE	SEE SHEET 2	SEE SHEET 2
5	-	OVERMOULDING	TPU	BLACK
4	1	COUPLING NUT FEMALE	BRASS	NICKEL
3	1	INSERT FEMALE	PUR/TPU	BLACK
2	2	O-RING	FPM	RED
1	3/4/5	CONTACT FEMALE	BRASS	SELECTIVE Au OVER Ni
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH/COLOR

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		SCALE		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#516585			molex CSE M12 XP AC FE STR XXX XM SE SHLD						
mm		2:1											
GENERAL TOLERANCES (UNLESS SPECIFIED)													
ANGULAR TOL ± 1.0°													
4 PLACES ±		EC NO: 823299 DRWN: VISHAH2 2025/05/23 CHK'D: GGA 2025/05/29 APPR: GGA 2025/05/29											
3 PLACES ±				PRODUCT CUSTOMER DRAWING			DOCUMENT NUMBER SD-120069-035			DOC TYPE PSD	DOC PART 001	REVISION A4	
2 PLACES ± 0.05													
1 PLACE ± 0.3		INITIAL REVISION: DRWN: AKONDRACIUK 2015/09/10 APPR: MIWASIECZKO 2015/09/29											
0 PLACES ± 0.5													
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION 		DRAWING B-SIZE		SERIES 120069		MATERIAL NUMBER SEE TABLE		CUSTOMER GENERAL MARKET		SHEET NUMBER 1 OF 2	

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ENGINEERING MATRIX

80XS00XXXXXX

OPTIONAL

88=Micro-Change
M12x1
Single ended

Poles:
3=3
4=4
5=5

Shielded Female Straight

Cable type: See table

Units : Meter

Length
examples:
005=0.5
010=1
100=10

Overmold color:
Blank=BK TPU
Blank=YE for cables A09, S19, S20, S26
Blank=YE TPE-E for cables K03, K05
A=GY | G= BK | Y= YE

Coupling Nut:
Blank (Standard)=Knurled Brass Ni Plated
1=Hexagonal Stainless steel

H= 2pcs. of I/D Carrier

Cables lxx & P82 always with 2 pcs. of
I/D Carrier even if no H in Engineering No.

CABLE LIST

CABLE TYPE	CABLE O.D.	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	DRAG CHAIN	SHIELD
I26	6.2mm	5	0.34mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	YES
S20	6.3/6.3/6.5 mm	3 / 4 / 5	0.34mm²	PVC YELLOW	UL 2661/1731	C22.2 II A 105°C/300V	-30°C to +105°C	-	-	YES
P20	5.2/5.5/6.0 mm	3 / 4 / 5	0.34mm²	PUR BLACK LSOH	-	-	-40°C to +90°C	-25°C to +90°C	-	YES
S26	6.2 mm	5	0.34mm²	PVC YELLOW	UL 2661/1731	C22.2 II A 105°C/300V	-30°C to +105°C	-	-	YES

PART LIST

No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length
1	---	803S00P20M030	3000	21	1200699460	804S00S20M040	4000
2	1200100127	803S00S20M100	10000	22	1200699499	804S00S20M050	5000
3	---	803S00P20M020	2000	23	1200699626	804S00P20M300	30000
4	---	803S00P20M050	5000	24	1200100014	805S00P20M100	10000
5	---	803S00P20M100	10000	25	1200100048	805S00P20M050	5000
6	1200698426	803S00S20M200	20000	26	1200100081	805S00P20M150	15000
7	1200100007	804S00P20M020	2000	27	1200698002	805S00P20M015	1500
8	1200100008	804S00P20M050	5000	28	1200698055	805S00P20M020	2000
9	1200100009	804S00P20M250	25000	29	1200698059	805S00S26M006	600
10	1200100043	804S00P20M100	10000	30	1200698125	805S00S26M050	5000
11	1200100096	804S00P20M070	7000	31	1200698126	805S00S26M150	15000
12	1200698013	804S00P20M040	4000	32	1200698145	805S00P20M020G	2000
13	1200698014	804S00P20M150	15000	33	1200698158	805S00I26M100	10000
14	1200698015	804S00S20M070	7000	34	1200698159	805S00I26M250	25000
15	1200698053	804S00P20M200	20000	35	1200698398	805S00P20M010	1000
16	1200698070	804S00P20M0501	5000	36	1200698484	805S00P20M100H	10000
17	1200698071	804S00P20M400	40000	37	1200698753	805S00P20M0501	5000
18	1200698156	804S00S20M0501	5000	38	1200698754	805S00P20M1501	15000
19	1200698348	804S00P20M060	6000	39	1200699414	805S00P20M600	60000
20	1200698445	804S00P20M010	1000	40	1200699416	805S00P20M030	3000

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mm	1:1								
GENERAL TOLERANCES (UNLESS SPECIFIED)									
ANGULAR TOL	± 1.0 °								
4 PLACES	±								
3 PLACES	±	EC NO: 823299 DRWN: VISHAH2 CHKD: GGA APPR: GGA	2025/05/23 2025/05/29 2025/05/29	DOCUMENT NUMBER			DOC TYPE	DOC PART	REVISION
2 PLACES	± 0.05			SD-120069-035			PSD	001	A4
1 PLACE	± 0.3								
0 PLACES	± 0.5	INITIAL REVISION: DRWN: AKONDRACIUK APPR: MIWASIECZKO		2015/09/10 2015/09/29	MATERIAL NUMBER		CUSTOMER		SHEET NUMBER
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES					
			B-SIZE	120069	SEE TABLE		GENERAL MARKET		2 OF 2

DOCUMENT STATUS

P1

RELEASE DATE

2025/05/29 13:28:13

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