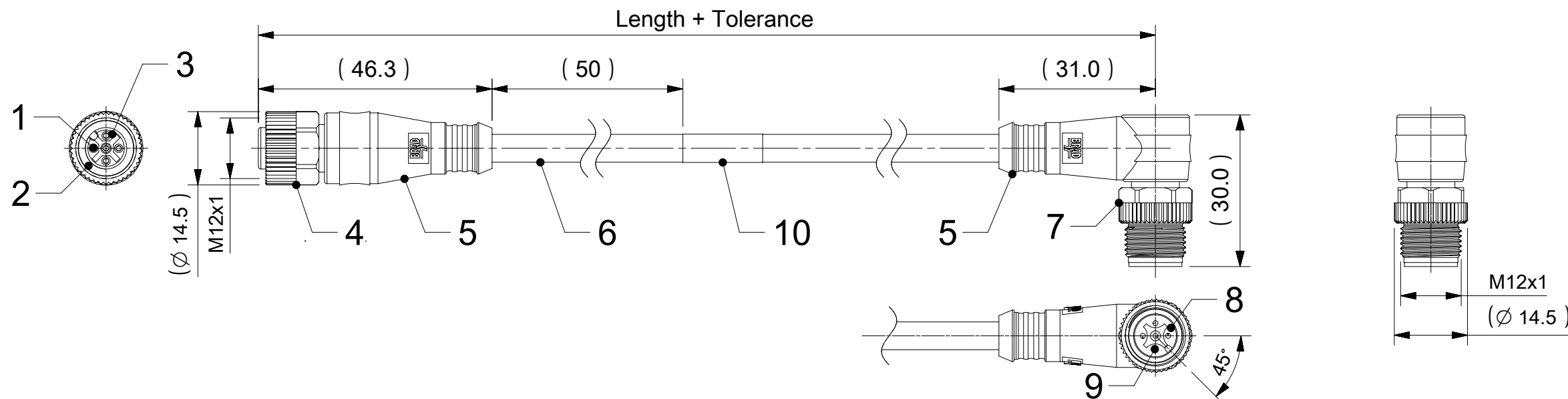


FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 90° ANGLED



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: IP67 IN MATED AND LOCKED POSITION

TEMPERATURE: -25°C / +85°C

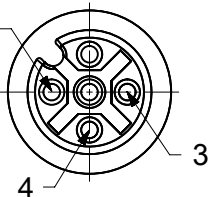
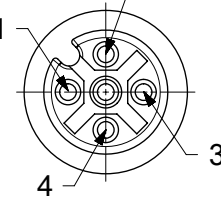
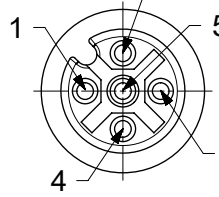
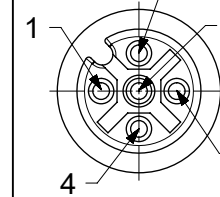
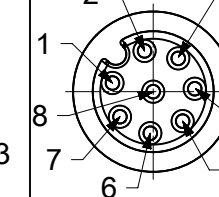
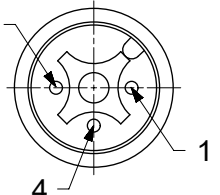
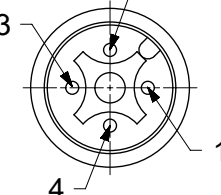
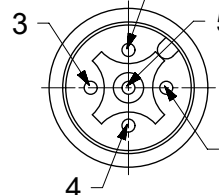
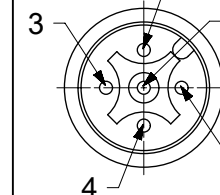
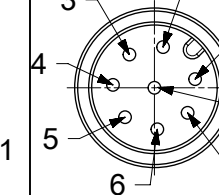
INSULATION RESISTANCE: $10^8 \Omega$ MIN.

MATING CYCLES: MIN. 100

- Thicker Overmold for Cables with bigger Outer Diameter

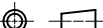
SCALE 1:2

CONTACTS POSITION FRONT VIEW:

		3 CONTACTS	4 CONTACTS	5 CONTACTS	5 CONTACTS	8 CONTACTS
C	CABLE	B30, B55	B30, B33, B36, B55	B30, B33, B36, B55	B42	B41, B49
	FEMALE					
	MALE					
A	CONNECTIONS	PIN WIRE 1 BROWN 2 --- 3 BLUE 4 BLACK 5 ---	PIN WIRE 1 BROWN 2 WHITE 3 BLUE 4 BLACK 5 ---	PIN WIRE 1 BROWN 2 WHITE 3 BLUE 4 BLACK 5 GREY	PIN WIRE 1 BROWN 2 WHITE 3 BLUE 4 BLACK 5 GREEN/YELLOW	PIN WIRE 1 WHITE 2 BROWN 3 GREEN 4 YELLOW 5 GREY 6 PINK 7 BLUE 8 RED

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

11	SEE PN MATRIX	I/D CARRIER	PVC	TRANSPARENT
10	1	LABEL YELLOW	VINYL	---
9	8	CONTACT M12 MALE	BRASS	SELECTIVE GOLD OVER NICKEL
	3 / 4 / 5		COPPER	
8	1	INSERT MALE BLACK	TPU	---
7	1	COUPLING NUT MALE SW13	BRASS	NICKEL
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOULDING BLACK	TPU	---
4	1	COUPLING NUT FEMALE SW13	BRASS	NICKEL
3	1	INSERT FEMALE BLACK	TPU	---
2	1	ORING RED	FPM	---
1	8	CONTACT M12 FEMALE	BRASS	SELECTIVE GOLD OVER NICKEL
	3 / 4 / 5		BRONZE	
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: CHANGED DIMENSIONING STYLE OF OVERALL LENGTH TO END TO END. UPDATED NOTES AND SORTED PART LIST USING CABLE TYPES ON SHEET 3. ADDED B41 P/N'S. EC NO: 789428 DRWN: AKABADI 2023/03/11 CHK'D: RSILLER 2024/07/02 APPR: RSILLER 2024/07/02 INITIAL REVISION: DRWN: JMARSZALEK 2016/10/17 APPR: RSILLER 2016/10/18				molex					
mm		1:1											
GENERAL TOLERANCES (UNLESS SPECIFIED)								CSE M12 XP AC FE RA WSOR MA RA XM DE					
ANGULAR TOL ± 1.0°													
4 PLACES		±		PRODUCT CUSTOMER DRAWING									
3 PLACES		±											
2 PLACES		± 0.05		DOCUMENT NUMBER				DOC TYPE		DOC PART		REVISION	
1 PLACE		± 0.3		1200668920				PSD		000		B	
0 PLACES		± 0.5		MATERIAL NUMBER				CUSTOMER		SHEET NUMBER			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS													
		THIRD ANGLE PROJECTION		DRAWING		SERIES		SEE PART LIST		GENERAL MARKET		1 OF 3	
				A3-SIZE		120066							

CODING REQUIRED TO IEC 61076-2-101

DOCUMENT STATUS	P1	RELEASE DATE	2024/07/02	09:17:51
-----------------	----	--------------	------------	----------

FORMAT: master tb prod-A3
REVISION: J1

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

88X032XXXXXX

88=M12x1
Double ended

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

Heads style:
032=Plug Female Straight
to Plug Male 90°

Cable type: See Table

Units:
M=Meter
C=Centimeter

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

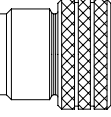
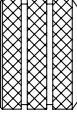
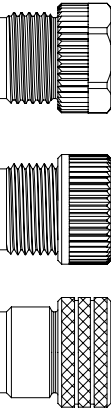
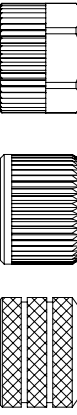
Overmold color:
Blank (Standard)=Black
A=Grey / G=Black / Y=Yellow / R=Red

Coupling Nut:
Blank (Standard)=Knurled/Hex Brass, Ni Plated
5=Knurled Derlin
7=Knurled Brass Ni Plated, Teflon Coated

H= 2 pcs. of I/D Carrier PVC Transparent
(Cables B36 always with 2 pcs. I/D Carrier)

COUPLING NUT

FEMALEMALE



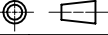
CABLE INFORMATION (for more information see Cable Data Sheet).

CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	DRAG CHAIN: TEMP. / BENDING RADIUS	DRAG CHAIN	CABLE PRODUCT SPECIFICATION	CABLE SPEC. DRAWING
B30	3 / 4 / 5	0.34mm²	TPU Black	UL 21215/758	C22.2 I/II A/B 80°/600V	-40°C to +90°C >5xO.D.	-25°C to +80°C >7.5xO.D.	-5°C to +60°C >7.5xO.D.	up to 5 000 000 cycles at temp 20°C	1552200001	SD-120209-001
B33	4 / 5	0.34mm²	TPU Gray								SD-120209-001
B36	4 / 5	0.34mm²	TPU Orange								SD-120209-001
B41	8	0.25mm²	TPU Black								SD-120209-006
B42	5	0.34mm²	TPU Black								SD-120209-001
B49	8	0.25mm²	TPU Orange								SD-120209-006
B55	3 / 4 / 5	0.34mm²	TPU Yellow								n/a

CABLE LENGTH TOLERANCES

LENGTH	TOLERANCE
0m-1m	+40 mm
>1m-5m	+60 mm
>5m-10m	+80 mm
>10m-20m	+140 mm
>20m-30m	+160 mm
>30m	+1% 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: CHANGED DIMENSIONINGSTYLE OF OVERALL LENGTH TO END TO END. UPDATED NOTES AND SORTED PART LIST USING CABLE TYPES ON SHEET 3. ADDED B41 P/N'S. EC NO: 789428 DRWN: AKABADI 2023/03/11 CHK'D: RSILLER 2024/07/02 APPR: RSILLER 2024/07/02 INITIAL REVISION: DRWN: JMARSZALEK 2016/10/17 APPR: RSILLER 2016/10/18	molex CSE M12 XP AC FE RA WSOR MA RA XM DE			
GENERAL TOLERANCES (UNLESS SPECIFIED)						
ANGULAR TOL	± 1.0 °		PRODUCT CUSTOMER DRAWING			
4 PLACES	±		DOCUMENT NUMBER			
3 PLACES	±		1200668920			
2 PLACES	± 0.05	DOC TYPE				
1 PLACE	± 0.3	PSD				
0 PLACES	± 0.5	DOC PART				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	REVISION
		A3-SIZE	120066	SEE PART LIST	GENERAL MARKET	B
			SHEET NUMBER		2 OF 3	

10	9	8	7	6	5	4	3	2	1					
PART LIST														
MOLEX PNENGINEERING NoL [mm]			MOLEX PNENGINEERING NoL [mm]			MOLEX PNENGINEERING NoL [mm]								
3P CABLE B30			4P CABLE B36			5P CABLE B42								
1200668918	883032B30M006	600	1200669075	884032B36M0057Y	500	1200668930	885032B42M006	600						
1200668919	883032B30M010	1000	1200669076	884032B36M0107Y	1000	1200668931	885032B42M010	1000						
1200668920	883032B30M020	2000	1200669077	884032B36M0157Y	1500	1200668932	885032B42M020	2000						
1200668921	883032B30M030	3000	1200669078	884032B36M0207Y	2000	1200668933	885032B42M030	3000						
1200668922	883032B30M050	5000	1200669079	884032B36M0307Y	3000	1200668934	885032B42M050	5000						
1200668923	883032B30M100	10000	1200669080	884032B36M0407Y	4000	1200668935	885032B42M100	10000						
4P CABLE B30			1200669081			4P CABLE B55								
1200668924	884032B30M006	600	1200669082			1200669636	884032B55M010Y	1000						
1200668925	884032B30M010	1000	1200669083			1200669637	884032B55M020Y	2000						
1200668926	884032B30M020	2000	1200669084			1200669638	884032B55M030Y	3000						
1200668927	884032B30M030	3000	1200669085			1200669639	884032B55M050Y	5000						
1200668928	884032B30M050	5000	1200669086			1200669640	884032B55M100Y	10000						
1200668929	884032B30M100	10000	1200669087			1200669641	884032B55M150Y	15000						
1200669634	884032B30M150	15000	1200669088			1200669642	884032B55M200Y	20000						
1200669635	884032B30M200	20000	1200669089			5P CABLE B55								
5P CABLE B30			5P CABLE B36			1200669695	885032B55M010Y	1000						
1200669003	885032B30M006	600	1200669090	885032B36M0057Y	500	1200669696	885032B55M020Y	2000						
1200669004	885032B30M010	1000	1200669091	885032B36M0107Y	1000	1200669697	885032B55M030Y	3000						
1200669005	885032B30M020	2000	1200669092	885032B36M0207Y	2000	1200669698	885032B55M050Y	5000						
1200669006	885032B30M030	3000	1200669093	885032B36M0307Y	3000	1200669699	885032B55M100Y	10000						
1200669007	885032B30M050	5000	1200669094	885032B36M0407Y	4000	1200669700	885032B55M150Y	15000						
1200669008	885032B30M100	10000	1200669095	885032B36M0507Y	5000	1200669701	885032B55M200Y	20000						
1200669693	885032B30M150	15000	1200669096	885032B36M0607Y	6000									
1200669694	885032B30M200	20000	1200669097	885032B36M0807Y	8000									
4P CABLE B33			1200669098	885032B36M1007Y	10000									
1200669889	884032B33M005A	500	1200669099	885032B36M1207Y	12000									
1200669627	884032B33M010A	1000	1200669100	885032B36M1507Y	15000									
1200669628	884032B33M020A	2000	1200669101	885032B36M1807Y	18000									
1200669629	884032B33M030A	3000	1200669102	885032B36M2007Y	20000									
1200669630	884032B33M050A	5000	1200669103	885032B36M2507Y	25000									
1200669631	884032B33M100A	10000	1200669104	885032B36M3007Y	30000									
1200669632	884032B33M150A	15000												
1200669633	884032B33M200A	20000												
5P CABLE B33														
1200669912	885032B33M005A	500												
1200669686	885032B33M010A	1000												
1200669687	885032B33M020A	2000												
1200669688	885032B33M030A	3000												
1200669689	885032B33M050A	5000												
1200669690	885032B33M100A	10000												
1200669691	885032B33M150A	15000												
1200669692	885032B33M200A	20000												
1200669913	885032B33M300A	30000												
1200669914	885032B33M400A	40000												
1200669915	885032B33M500A	50000												
<table><tr><td>DOCUMENT STATUS</td><td>P1</td><td>RELEASE DATE</td><td>2024/07/02</td><td>09:17:51</td></tr></table>										DOCUMENT STATUS	P1	RELEASE DATE	2024/07/02	09:17:51
DOCUMENT STATUS	P1	RELEASE DATE	2024/07/02	09:17:51										
10	9	8	7	6	5	4	3	2	1					