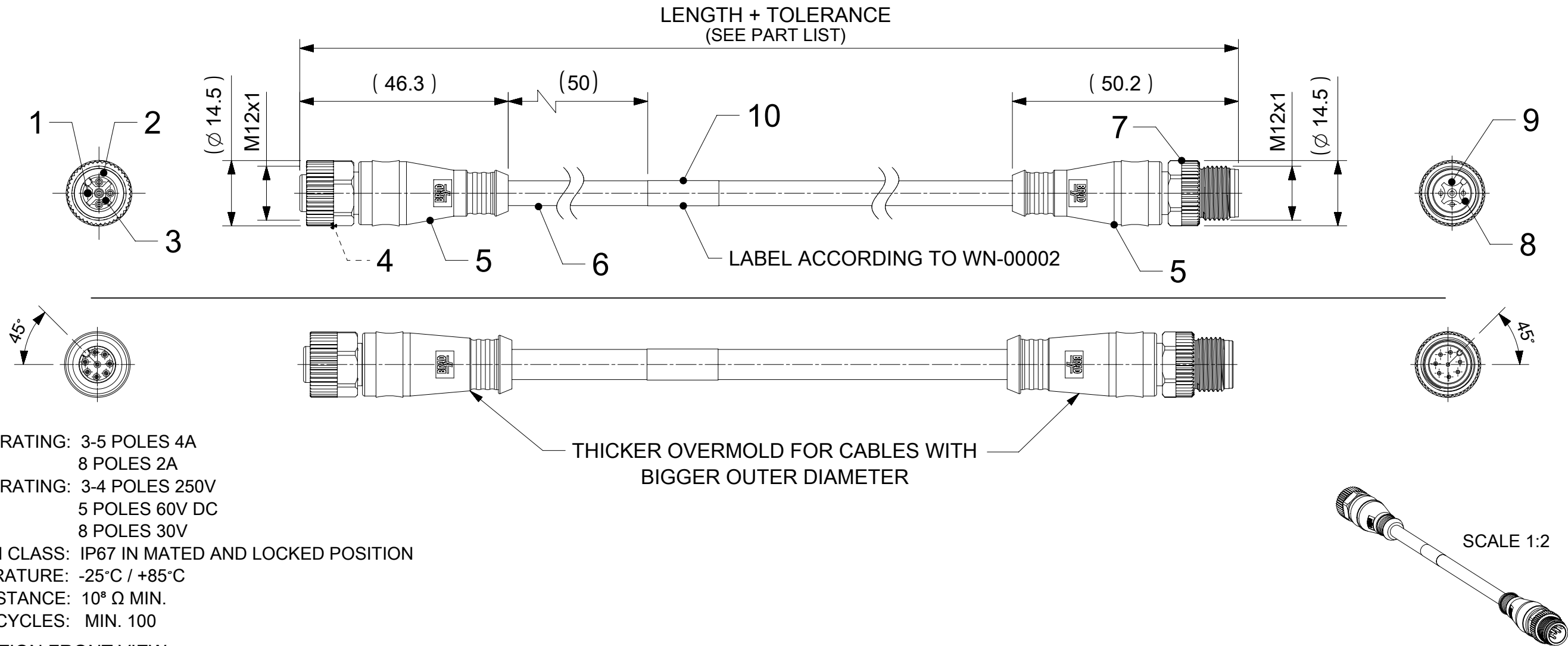


FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT



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

CODING REQUIRED TO IEC 61076-2-101

DOCUMENT STATUS	P1	RELEASE DATE	2025/09/15	22:07:19
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FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

10	1	LABEL OR PRINTING	VINYL / ---	---
9	3 / 4 / 5 8	CONTACT M12 MALE	COPPER BRASS	SELECTIVE GOLD OVER NICKEL SELECTIVE GOLD OVER NICKEL
8	1	INSERT MALE BLACK	TPU	---
7	1	COUPLING NUT MALE	SEE SHEET 2	SEE SHEET 2
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOULDING	TPU	SEE SHEET 2
4	1	COUPLING NUT FEMALE	SEE SHEET 2	SEE SHEET 2
3	1	INSERT FEMALE BLACK	PUR	---
2	1	O-RING RED	FPM	---
1	3 / 4 / 5 8	CONTACT M12 FEMALE	BRONZE BRASS	SELECTIVE GOLD OVER NICKEL SELECTIVE GOLD OVER NICKEL
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

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 mm 1:1	CURRENT REV DESC: ADDED NEW PN 1200669974 & 1200669975 TO THE TABLE					
	GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 834260		2025/09/10		
	ANGULAR TOL ± 1.0°		DRWN: VASUTHKARP		2025/09/11		
	4 PLACES ±		CHK'D: APAWLAK01		2025/09/15		
	3 PLACES ±		APPR: HKNEELAND				
	2 PLACES ± 0.05		INITIAL REVISION:				
	1 PLACE ± 0.3		DRWN: JMARSZALEK		2016/07/22		
DIVISIONAL SYMBOLS	0 PLACES ± 0.5		APPR: RSILLER		2016/08/29		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION				
			DRAWING				
		A3-SIZE		SERIES		120066	
		MATERIAL NUMBER		CUSTOMER		SEE SHEET 3 & 4	
		DOCUMENT NUMBER		DOC TYPE		DOC PART	
		1200668993		PSD		000	
		SHEET NUMBER				1 OF 4	

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

88X030XXXXXX

88=M12x1
Double ended

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

Heads style:
030=Plug Female Straight
to Plug Male Straight

Cable type: See Table

Units:
M=Meter
C=Centimeter
T=10x Meter

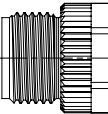
Length
Examples:
005=0.5 units
010=1 units
020=1 units
050=5 units
100=10 units
150=15 units
200=20 units

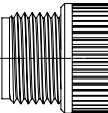
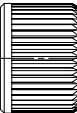
Overmold color:
Blank (Standard)=Black
A=Grey / G=Black / Y=Yellow / R=Red

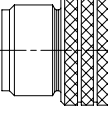
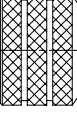
Coupling Nut:
Blank (Standard)=Knurled/Hex Brass, Ni Plated
5=Knurled Derlin
7=Knurled Brass Ni Plated, Teflon Coated

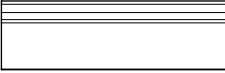
H= 2 pcs. of I/D Carrier PVC Transparent
(Cable B36 always with
2 pcs. I/D Carrier)

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

FUNCTIONAL SYMBOLS

 $\frac{F}{A}=0$

 $\frac{F}{E}=0$

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

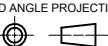
± 0.3

0 PLACES

± 0.5

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

THIRD ANGLE PROJECTION



DRAWING

A3-SIZE

SERIES

120066

DOCUMENT NUMBER

1200668993

MATERIAL NUMBER

SEE SHEET 3 & 4

CUSTOMER

GENERAL MARKET

SHEET NUMBER

2 OF 4

CURRENT REV DESC: ADDED NEW PN 1200669974 & 1200669975 TO THE TABLE

EC NO: 834260

DRWN: VBASUTHKARP

CHK'D: APAWLAK01

APPR: HKNEELAND

INITIAL REVISION:

DRWN: JMARSZALEK

APPR: RSILLER

2025/09/10

2025/09/11

2025/09/15

2016/07/22

2016/08/29



CSE M12 XP AC FE STR WSOR MA STR XM DE

PRODUCT CUSTOMER DRAWING

	10	9	8	7	6	5	4	3	2	1	
	PART LIST										
F	MOLEX PN			ENGINEERING No			L [mm]				
	3P CABLE B30										
	1200668889			883030B30M006			600				
	1200668890			883030B30M010			1000				
	1200668891			883030B30M020			2000				
	1200668892			883030B30M030			3000				
E	1200668893			883030B30M050			5000				
	1200668894			883030B30M100			10000				
	1200669718			883030B30M150			15000				
	1200669719			883030B30M200			20000				
	1200669720			883030B30M250			25000				
	4P CABLE B30										
D	1200669157			884030B30M002			200				
	1200669923			884030B30M003			300				
	1200669480			884030B30M005			500				
	1200668817			884030B30M006			600				
	1200668818			884030B30M010			1000				
	1200665456			884030B30M010R			1000				
C	1200669521			884030B30M015			1500				
	1200668819			884030B30M020			2000				
	1200665457			884030B30M020R			2000				
	1200669144			884030B30M025			2500				
	1200668820			884030B30M030			3000				
	1200665458			884030B30M030R			3000				
B	1200669158			884030B30M030R			3000				
	1200669181			884030B30M040			4000				
	1200665459			884030B30M040R			4000				
	1200668821			884030B30M050			5000				
	1200665460			884030B30M050R			5000				
	1200669182			884030B30M060			6000				
A	1200668863			884030B30M070			7000				
	1200669481			884030B30M080			8000				
	1200668822			884030B30M100			10000				
	1200669504			884030B30M120			12000				
	1200669505			884030B30M140			14000				
	1200668913			884030B30M150			15000				
	1200669506			884030B30M160			16000				
	1200668914			884030B30M200			20000				
	1200668915			884030B30M250			25000				
	1200668916			884030B30M300			30000				
	1200669513			884030B30M400			40000				
	1200669512			884030B30M550			55000				
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