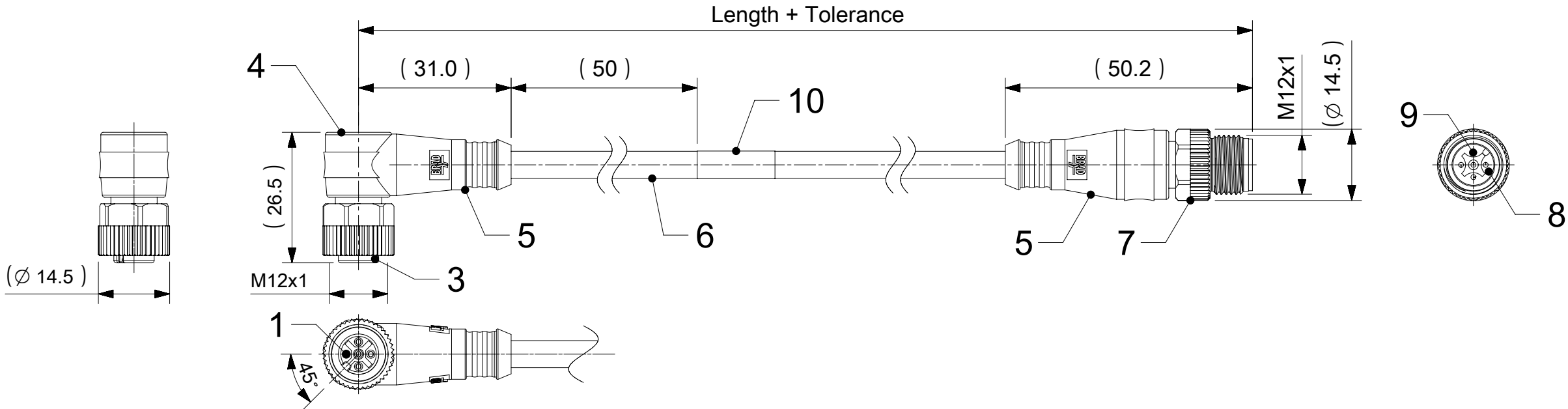
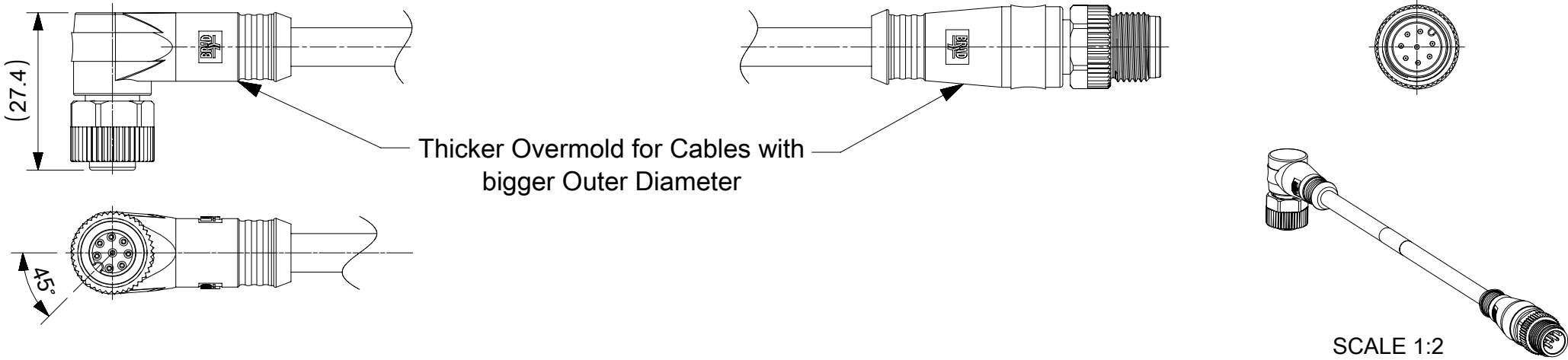


FEMALE PLUG M12 90° ANGLED TO MALE PLUG M12 STRAIGHT



NOTES:
CONTACT CURRENT RATING: 3-5 POLES 4A
8 POLES 2A
VOLTAGE RATING: 3-4 POLES 250V
5 POLES 60V
8 POLES 30V
PROTECTION CLASS: IP67 IN MATED & LOCKED POSITION
TEMPERATURE: -25°C / +85°C
INSULATION RESISTANCE: 10⁸ Ω MIN.
MATING CYCLES: MIN. 100



CONTACT POSITION FRONT VIEW:

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
									6	PINK
									7	BLUE
									8	RED

CODING REQUIRED TO IEC 61076-2-101

DOCUMENT STATUS P1 RELEASE DATE 2024/07/02 09:17:56

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

10	1	LABEL OR PRINTING	VINYL / ---	---
9	3 / 4 / 5	CONTACT M12 MALE	COPPER	SELECTIVE GOLD OVER NICKEL
	8		BRASS	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	ORING RED	FPM	---
1	3 / 4 / 5	CONTACT M12 FEMALE	BRONZE	SELECTIVE GOLD OVER NICKEL
	8		BRASS	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		CURRENT REV DESC: CHANGED DIMENSIONING STYLE OF OVERALL LENGTH TO END TO END, UPDATED NOTES AND PART LIST SORTED USING CABLE TYPES IN SHEET 3			molex									
	mm		1:1														
	GENERAL TOLERANCES (UNLESS SPECIFIED)							CSE M12 XP AC FE RA WSOR MA STR XM DE									
	ANGULAR TOL ± 1.0 °																
4 PLACES ±																	
DIVISIONAL SYMBOLS	3 PLACES ±				EC NO: 789428			2023/03/10									
	2 PLACES ± 0.05				DRWN: AKABADI												
	1 PLACE ± 0.1				CHK'D: RSILLER												
	0 PLACES ± 0.2				APPR: RSILLER			2024/07/02									
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				INITIAL REVISION:			2024/07/02									
				DRWN: JMARSZALEK			2026/08/12										
				APPR: RSILLER			2016/08/29										
				THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
						A3-SIZE		120066		1200668999		PSD		000		B	
										MATERIAL NUMBER		CUSTOMER				SHEET NUMBER	
										SEE SHEET 3		GENERAL MARKET				1 OF 3	

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

OPTIONS

8	8	X	0	3	1	X	X	X	X	X	X	X	X
---	---	---	---	---	---	---	---	---	---	---	---	---	---

88=M12x1
Double ended

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

Heads style: 031=Plug Female 90° to Plug Male Straight
--

Cable type: See Table

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

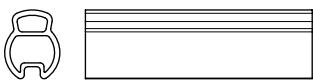
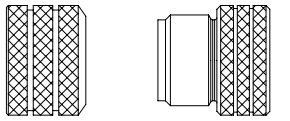
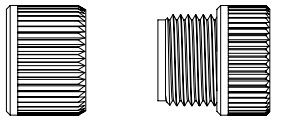
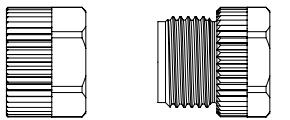
Length
Examples:
005=0.5 units
010=1 units
020=1 units
050=5 units
100=10 units
150=15 units
200=20 units

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) _____

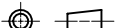
FEMALE MALE



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-120209-002
B36	4 / 5	0.34mm²	TPU Orange								SD-120209-003
B41	8	0.25mm²	TPU Black								SD-120209-006
B42	5	0.34mm²	TPU Black								SD-120209-007
B55	4 / 5	0.34mm²	TPU Yellow								n/a

CABLE LENGTH TOLERANCES		
LENGTH	TOLERANCE	
shorter 1m	+40 mm	-0 mm
1m-5m	+60 mm	-0 mm
5m-10m	+80 mm	-0 mm
10m-20m	+140 mm	-0 mm
20m-30m	+160 mm	-0 mm
longer 30m	+1%	-0 mm

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		CURRENT REV DESC: CHANGED DIMENSIONING STYLE OF OVERALL LENGTH TO END TO END. UPDATED NOTES AND PART LIST SORTED USING CABLE TYPES IN SHEET 3		molex										
	mm		1:1														
	GENERAL TOLERANCES (UNLESS SPECIFIED)																
	ANGULAR TOL		± 1.0 °				CSE M12 XP AC FE RA WSOR MA STR XM DE										
	4 PLACES		±														
	3 PLACES		±														
	2 PLACES		± 0.05		PRODUCT CUSTOMER DRAWING												
	1 PLACE		± 0.1														
	0 PLACES		± 0.2		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION						
DIVISIONAL SYMBOLS		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
				A3-SIZE		120066		SEE SHEET 3		GENERAL MARKET		2 OF 3					

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10	9	8	7	6	5	4	3	2	1
PART LIST									
MOLEX PN			ENGINEERING No			L [mm]			
3P CABLE B30									
1200668877			883031B30M006			600			
1200668878			883031B30M010			1000			
1200668879			883031B30M020			2000			
1200668880			883031B30M030			3000			
1200668881			883031B30M050			5000			
1200668882			883031B30M100			10000			
4P CABLE B30									
1200669949			884031B30M003			300			
1200668829			884031B30M006			600			
1200668830			884031B30M010			1000			
1200669520			884031B30M015			1500			
1200668831			884031B30M020			2000			
1200668832			884031B30M030			3000			
1200668833			884031B30M050			5000			
1200669744			884031B30M080			8000			
1200668834			884031B30M100			10000			
1200669285			884031B30M150			15000			
1200669566			884031B30M200			20000			
5P CABLE B30									
1200668997			885031B30M006			600			
1200669241			885031B30M0067			600			
1200668998			885031B30M010			1000			
1200669371			885031B30M010H			1000			
1200668999			885031B30M020			2000			
1200669243			885031B30M0207			2000			
1200669000			885031B30M030			3000			
1200669001			885031B30M050			5000			
1200669002			885031B30M100			10000			
1200669677			885031B30M150			15000			
1200669678			885031B30M200			20000			
MOLEX PN			ENGINEERING No			L [mm]			
4P CABLE B33									
1200669569			884031B33M005			500			
1200669581			884031B33M005A			500			
1200669570			884031B33M010			1000			
1200669582			884031B33M010A			1000			
1200669571			884031B33M020			2000			
1200669621			884031B33M020A			2000			
1200669572			884031B33M030			3000			
1200669622			884031B33M030A			3000			
1200669573			884031B33M050			5000			
1200669623			884031B33M050A			5000			
MOLEX PN			ENGINEERING No			L [mm]			
4P CABLE B33									
1200669574			884031B33M100			10000			
1200669624			884031B33M100A			10000			
1200669625			884031B33M150A			15000			
1200669626			884031B33M200A			20000			
5P CABLE B33									
1200669908			885031B33M005A			500			
1200669670			885031B33M010A			1000			
1200669671			885031B33M020A			2000			
1200669672			885031B33M030A			3000			
1200669673			885031B33M050A			5000			
1200669674			885031B33M100A			10000			
1200669675			885031B33M150A			15000			
1200669676			885031B33M200A			20000			
1200669909			885031B33M300A			30000			
1200669910			885031B33M400A			40000			
1200669911			885031B33M500A			50000			
MOLEX PN			ENGINEERING NO			L [mm]			
4P CABLE B36									
1200669534			884031B36M0057H			500			
1200669047			884031B36M0057Y			500			
1200669564			884031B36M0067Y			600			
1200669535			884031B36M0107H			1000			
1200669048			884031B36M0107Y			1000			
1200669536			884031B36M0157H			1500			
1200669049			884031B36M0157Y			1500			
1200669537			884031B36M0207H			2000			
1200669050			884031B36M0207Y			2000			
1200669538			884031B36M0307H			3000			
1200669051			884031B36M0307Y			3000			
1200669052			884031B36M0407Y			4000			
1200669539			884031B36M0507H			5000			
1200668861			884031B36M0507Y			5000			
1200669053			884031B36M0607Y			6000			
1200669054			884031B36M0807Y			8000			
1200669540			884031B36M1007H			10000			
1200668862			884031B36M1007Y			10000			
1200669055			884031B36M1207Y			12000			
1200669056			884031B36M1507Y			15000			
1200669057			884031B36M2007Y			20000			
1200669058			884031B36M2507Y			25000			
1200669059			884031B36M3007Y			30000			
MOLEX PN			ENGINEERING No			L [mm]			
5P CABLE B36									
1200669549			885031B36M0057H			500			
1200669060			885031B36M0057Y			500			
1200669550			885031B36M0107H			1000			
1200669061			885031B36M0107Y			1000			
1200669551			885031B36M0157H			1500			
1200669552			885031B36M0207H			2000			
1200669062			885031B36M0207Y			2000			
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1200669554			885031B36M0507H			5000			
1200669065			885031B36M0507Y			5000			
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1200669068			885031B36M1007Y			10000			
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1200669072			885031B36M2007Y			20000			
1200669073			885031B36M2507Y			25000			
1200669074			885031B36M3007Y			30000			
MOLEX PN			ENGINEERING No			L [mm]			
8P CABLE B41									
1200668885			888031B41M020			2000			
1200668887			888031B41M050			5000			
1200668888			888031B41M100			10000			