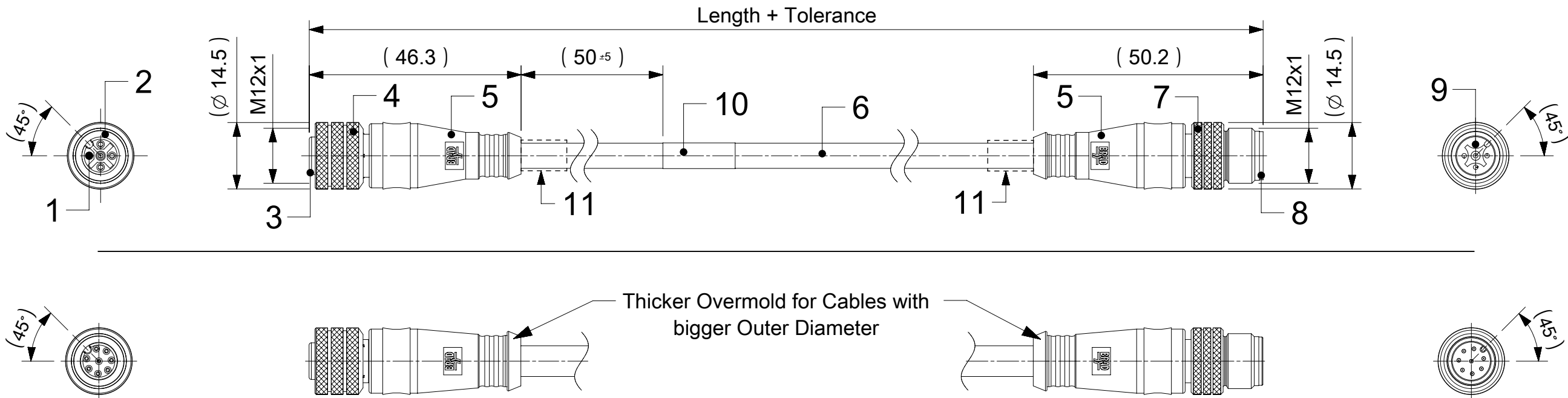


FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT



NOTES:

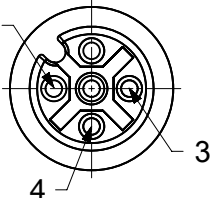
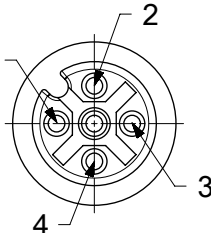
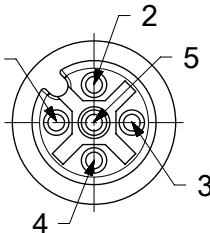
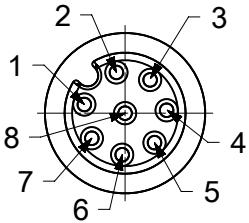
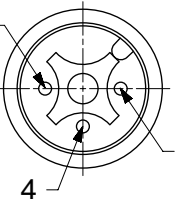
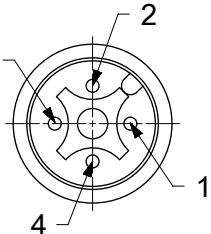
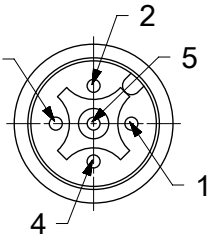
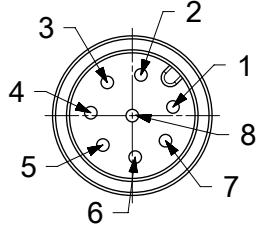
RATED VOLTAGE: 3, 4 contacts 250V per IEC 60664
5 contacts 60V per IEC 60664
5 contacts 250V per UL 2238
8 contacts 30V per IEC 60664

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	
FEMALE								
MALE								
CONNECTIONS	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 OR GREEN/YELLOW	5	GREY
							6	PINK
							7	BLUE
						8	RED	
CODING REQUIRED TO IEC 61076-2-101								

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

88X030XXXXXX

88=Micro-Change
M12x1
Double ended

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

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

Cable type: See Table

Units:
M=Meter

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

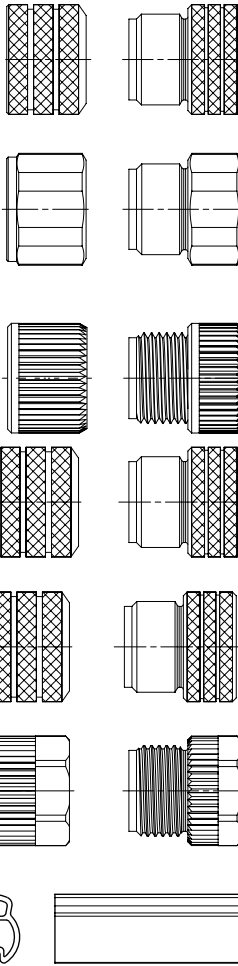
OPTIONS

Overmold color:
Blank (Standard)=Black TPU
Blank=Yellow PVC for cables
A09, S19, S20, S26
Blank=Yellow TPE-E for cables
K03, K05
A=Grey / G=Black / Y=Yellow

Coupling Nut:
Blank (Standard)=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
8=Type 316 stainless steel
9=Knurled / Hexagonal Brass Ni Plated SW13

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 NUT
FEMALE MALE



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

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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#516585

EC NO: 823299
DRWN: VISHAH2
CHK'D: GGA
APPR: GGA

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

2025/05/16
2025/05/29
2025/05/29
2016/09/19
2016/12/08

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

moLEX

CSE M12 XP AC FE STR MA STR XM DE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200668165

DOC TYPE

PSD

DOC PART

000

REVISION

A9

SEE PART LIST

GENERAL MARKET

2 OF 5

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
A09	4	22AWG	PVC YELLOW	UL 2661	I/II A/B 80°C/300V	-	-	-	-
B02	4	18AWG	PUR YELLOW	UL 20549	I/II A/B 80°C/300V	-	-	-	-
E52	3 / 4	0.34mm²	PVC GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
E57	5	0.34mm²	PVC GREY	-	-	-	-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
I26	5	0.34mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	YES
A8K03	4 / 5	18AWG	TPE YELLOW	UL ITC or PLTC	I/II A/B 90°C/300V	max 105°C	-	2 000 000 cycles, >15xO.D.	-
K05	3 / 4 / 5	22AWG	TPE YELLOW	UL ITC or PLTC	I/II A/B 90°C/300V	max 105°C	-	2 000 000 cycles, >15xO.D.	-
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.	-	-
S19	8	0.25mm²	PVC YELLOW	UL 2661/1569	C22.2 II A 105°C/300V	-30°C to +105°C, >10xO.D.	-15°C to +105°C, >15xO.D.	2 000 000 cycles, >15xO.D.	YES
S20	3 / 4 / 5	0.34mm²	PVC YELLOW	UL 2661/1731	C22.2 II A 105°C/300V	-30°C to +105°C	-	-	YES
S26	5	0.34mm²	PVC YELLOW	UL 2661/1731	C22.2 II A 105°C/300V	-30°C to +105°C	-	-	YES

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DIMENSION UNITS		SCALE		CURRENT REV DESC: REMOVED OBSOLETED PART NUMBERS AS PER PCN#516585				molex CSE M12 XP AC FE STR MA STR XM DE PRODUCT CUSTOMER DRAWING				
mm		1:1										
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 823299 DRWN: VISHAH2 2025/05/16 CHK'D: GGA 2025/05/29 APPR: GGA 2025/05/29								
ANGULAR TOL		± 1.0 °										
4 PLACES		±										
3 PLACES		±										
2 PLACES		± 0.05										
1 PLACE		± 0.3		INITIAL REVISION: DRWN: JMARSZALEK 2016/09/19 APPR: RSILLER 2016/12/08				DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
0 PLACES		± 0.5						1200668165		PSD	000	A9
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER		CUSTOMER		SHEET NUMBER
						A3-SIZE	120066	SEE PART LIST		GENERAL MARKET		3 OF 5

10	9	8	7	6	5	4	3	2	1
PART LIST									
Part No.			Engineering No.			Cable Length			
A09									
1200660166			883030A09M010			1m			
1200660261			884030A09M005			0.5m			
1200660262			884030A09M006			0.6m			
1200660266			884030A09M010			1m			
1200660269			884030A09M015			1.5m			
1200660271			884030A09M020			2m			
1200660273			884030A09M0208			2m			
1200660277			884030A09M030			3m			
1200669113			884030A09M0308			3m			
1200660286			884030A09M0508			5m			
1200660291			884030A09M070			7m			
1200660294			884030A09M080			8m			
1200660434			885030A09M050			5m			
B02									
1200660857			884030B02M020			2m			
1200660860			884030B02M030			3m			
1200660862			884030B02M050			5m			
1200660867			884030B02M100			10m			
E52									
1200071343			883030E52M003A			0.3m			
1200070956			883030E52M020A			2m			
1200071026			884030E52M010A			1m			
1200661434			884030E52M020A			2m			
1200071624			884030E52M030A			3m			
1200661472			884030E52M050A			5m			
1200070867			884030E52M100A			10m			
1200070653			884030E52M200A			20m			
I03									
1200070095			883030I03M003			0.3m			
1200070096			883030I03M006			0.6m			
1200070097			883030I03M010			1m			
1200669149			883030I03M010Y			1m			
1200070098			883030I03M020			2m			
1200668632			883030I03M020Y			2m			
1200070099			883030I03M030			3m			
1200668633			883030I03M030Y			3m			
1200668371			883030I03M040			4m			
1200070100			883030I03M050			5m			
1200668634			883030I03M050Y			5m			
1200070101			883030I03M100			10m			
1200070774			884030I03M006			0.6m			

Part No.			Engineering No.			Cable Length			
I03									
1200070480			884030I03M010			1m			
1200070481			884030I03M020			2m			
1200668637			884030I03M020Y			2m			
1200071627			884030I03M0205			2m			
1200070785			884030I03M030			3m			
1200668372			884030I03M040			4m			
1200070483			884030I03M050			5m			
1200070484			884030I03M060			6m			
1200070485			884030I03M100			10m			
1200668638			884030I03M100Y			10m			
1200070961			885030I03M030			3m			
1200668642			885030I03M030Y			3m			
1200668165			885030I03M100			10m			
1200669218			885030I03M100Y			10m			
I20									
1200071338			884030I20M030			3m			
I26									
1200072106			885030I26M005			0.5m			
1200668082			885030I26M006			0.6m			
1200070890			885030I26M010			1m			
1200668639			885030I26M010Y			1m			
1200072359			885030I26M015			1.5m			
1200668736			885030I26M015Y			1.5m			
1200070891			885030I26M020			2m			
1200668640			885030I26M020Y			2m			
1200668281			885030I26M025			2.5m			
1200070892			885030I26M030			3m			
1200668641			885030I26M030Y			3m			
1200071279			885030I26M050			5m			
1200668873			885030I26M050Y			5m			
K03									
1200660878			884030K03M003			0.3m			
1200668003			884030K03M005			0.5m			
1200660880			884030K03M006			0.6m			
1200660881			884030K03M010			1m			
1200660883			884030K03M020			2m			
1200660887			884030K03M030			3m			
1200660891			884030K03M040			4m			
1200660895			884030K03M050			5m			
1200660898			884030K03M060			6m			
1200660899			884030K03M070			7m			
1200660900			884030K03M080			8m			
1200660901			884030K03M090			9m			
1200660902			884030K03M100			10m			

Part No.			Engineering No.			Cable Length			
K03									
1200668001			884030K03M110			11m			
1200660904			884030K03M120			12m			
1200660905			884030K03M140			14m			
1200660906			884030K03M150			15m			
1200660907			884030K03M160			16m			
1200661543			884030K03M180			18m			
1200660909			884030K03M200			20m			
1200668004			884030K03M240			24m			
1200660911			884030K03M250			25m			
1200661906			884030K03M500			50m			
1200661664			885030K03M005			0.5m			
1200661034			885030K03M010			1m			
1200661035			885030K03M020			2m			
1200661036			885030K03M030			3m			
1200661037			885030K03M040			4m			
1200661038			885030K03M050			5m			
1200661039			885030K03M060			6m			
1200661041			885030K03M080			8m			
1200661042			885030K03M090			9m			
1200661043			885030K03M100			10m			
1200661685			885030K03M120			12m			
1200661490			885030K03M140			14m			
1200661044			885030K03M150			15m			
1200661686			885030K03M180			18m			
1200661687			885030K03M230			23m			
1200661684			885030K03M300			30m			
K05									
1200660683			884030K05M003			0.3m			
1200660684			884030K05M005			0.5m			
1200660686			884030K05M006			0.6m			
1200660687			884030K05M010			1m			
1200660688			884030K05M015			1.5m			
1200660689			884030K05M020			2m			
1200660690			884030K05M030			3m			
1200669948			884030K05M032			3.2m			
1200660691			884030K05M040			4m			

Part No.			Engineering No.			Cable Length			
K05									
1200660692			884030K05M050			5m			
1200668615			884030K05M050H			5m			
1200660693			884030K05M060			6m			
1200660915			884030K05M070			7m			
1200660694			884030K05M080			8m			
1200660695			884030K05M100			10m			
1200668616			884030K05M100H			10m			
1200660696			884030K05M120			12m			
1200660918			884030K05M140			14m			
1200660697			884030K05M150			15m			
1200660698			884030K05M180			18m			
1200661441			884030K05M190			19m			
1200660921			884030K05M200			20m			
1200660922			884030K05M210			21m			
1200660699			884030K05M230			23m			
1200661438			884030K05M250			25m			
1200665368			884030K05M280			28m			
1200660700			884030K05M300			30m			
1200661649			884030K05M400			40m			
1200669227			884030K05M500			50m			
1200669228			884030K05M600			60m			
P20									
1200668505			884030P20M010			1m			
1200668506			884030P20M020			2m			
1200668507			884030P20M050			5m			
1200668508			884030P20M100			10m			
P82									
1200668773			885030P82M0107			1m			
1200665012			885030P82M0307			3m			
S19									
1200661575			888030S19M030			3m			
1200661576			888030S19M050			5m			
1200661577			888030S19M100			10m			
1200661574			888030S19M120			12m			
S20									
1200668310			883030S20M005			0.5m			

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DIMENSION UNITS		SCALE		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#516585				molex	
mm		1:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)									
ANGULAR TOL		± 1.0 °							
4 PLACES		±		EC NO: 823299				CSE M12 XP AC FE STR MA STR XM DE	
3 PLACES		±		DRWN: VISHAH2 2025/05/16					
2 PLACES		± 0.05		CHK'D: GGA 2025/05/29 APPR: GGA 2025/05/29					
1 PLACE		± 0.3		INITIAL REVISION:				PRODUCT CUSTOMER DRAWING	
0 PLACES		± 0.5		DRWN: JMARSZALEK 2016/09/19 APPR: RSILLER 2016/12/08				DOCUMENT NUMBER	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER	
				A3-SIZE		120066		SEE PART LIST	
								CUSTOMER	
								SHEET NUMBER	
								4 OF 5	

DOCUMENT STATUS	P1	RELEASE DATE	2025/05/29	13:28:17
9		8		7
6		5		4
3		2		1

