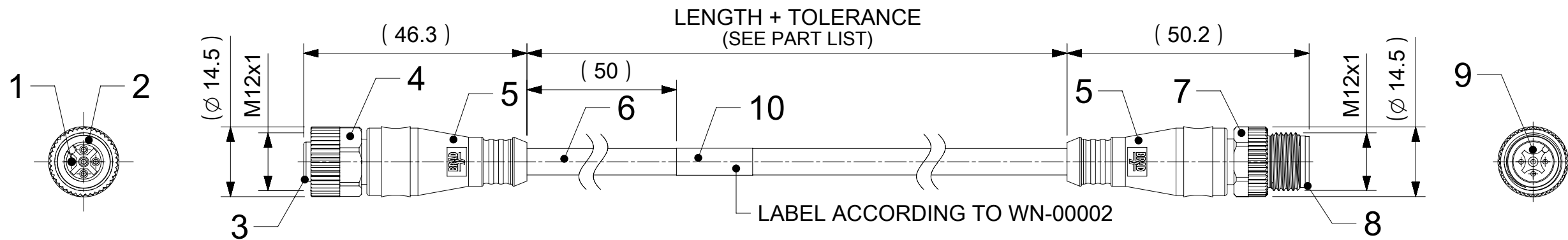


FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT



NOTES:
CONTACT CURRENT RATING: 3-5 POLES 4A
8 POLES 2A
VOLTAGE RATING: 3-4 POLES 250V
5 POLES 60V DC
8 POLES 30V
PROTECTION CLASS: IP 67
TEMPERATURE: -25°C / +85°C

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
							5		6	PINK
									7	BLUE
									8	RED

CODING REQUIRED TO IEC 61076-2-101

THICKER OVERMOLD FOR CABLES WITH BIGGER OUTER DIAMETER

SCALE 1:2

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

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: NEW P/N'S ADDED			molex CSE M12 XP AC FE STR WSOR MA STR XM DE PRODUCT CUSTOMER DRAWING		
mm		1:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)									
ANGULAR TOL ± 1.0 °				EC NO: 687807 DRWN: RSCHIEBER 2021/12/01 CHK'D: RSILLER 2021/12/07 APPR: RSILLER 2021/12/07			DOCUMENT NUMBER 1200668993 DOC TYPE PSD DOC PART 000 REVISION A16		
4 PLACES		±							
3 PLACES		±							
2 PLACES		± 0.05							
1 PLACE		± 0.3							
0 PLACES		± 0.5		INITIAL REVISION: DRWN: JMARSZALEK 2016/07/22 APPR: RSILLER 2016/08/29			MATERIAL NUMBER CUSTOMER SHEET NUMBER SEE SHEET 3 & 4 GENERAL MARKET 1 OF 4		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS									
THIRD ANGLE PROJECTION									
		DRAWING		SERIES					
		A3-SIZE		120066					

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

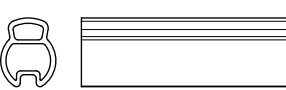
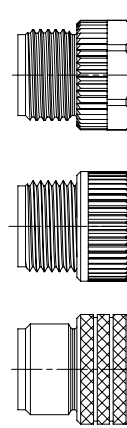
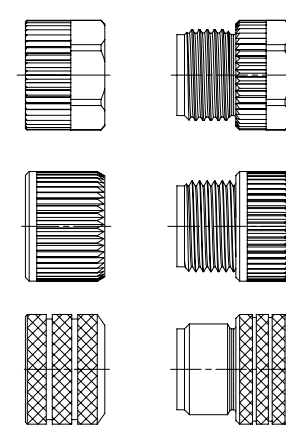
Length
Examples:
005=0.5 units
010=1 units
020=1 units
050=5 units
100=10 units
150=15 units
200=20 units

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

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

CURRENT REV DESC: NEW P/N'S ADDED

EC NO: 687807
DRWN: RSCHIEBER
CHK'D: RSILLER
APPR: RSILLER

2021/12/01
2021/12/07
2021/12/07

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

2016/07/22
2016/08/29

DOCUMENT NUMBER
1200668993

DOC TYPE
PSD

DOC PART
000

REVISION
A16

THIRD ANGLE PROJECTION

DRAWING
A3-SIZE

SERIES
120066

MATERIAL NUMBER
SEE SHEET 3 & 4

CUSTOMER
GENERAL MARKET

SHEET NUMBER
2 OF 4

10		9		8		7		6		5		4		3		2		1				
PART LIST																						
F	Lp.	MOLEX PN	ENGINEERING No	L [mm]	Lp.	MOLEX PN	ENGINEERING No	L [mm]	Lp.	MOLEX PN	ENGINEERING No	L [mm]	Lp.	MOLEX PN	ENGINEERING No	L [mm]	Lp.	MOLEX PN	ENGINEERING No	L [mm]		
	1	1200656067	885030B30M005H	500	31	1200668893	883030B30M050	5000	61	1200669031	884030B36M3007Y	30000	91	1200669247	885030B33M020	2000	101	1200669257	885030B33M005	500		
	2	1200659548	885030B42M150	15000	32	1200668894	883030B30M100	10000	62	1200669032	885030B36M0057Y	500	92	1200669248	885030B33M100	10000	102	1200669258	885030B33M010	1000		
	3	1200659549	885030B42M200	20000	33	1200668895	888030B41M006	600	63	1200669033	885030B36M0107Y	1000	93	1200669249	885030B33M200	20000	103	1200669263	884030B55M020	2000		
	4	1200659666	885030B30M005	500	34	1200668896	888030B41M010	1000	64	1200669034	885030B36M0207Y	2000	94	1200669250	884030B33M005	500	104	1200669264	884030B55M030	3000		
E	5	1200659667	885030B30M025	2500	35	1200668897	888030B41M020	2000	65	1200669035	885030B36M0307Y	3000	95	1200669251	884030B33M100	10000	105	1200669265	884030B55M040	4000		
	6	1200665456	884030B30M010R	1000	36	1200668898	888030B41M030	3000	66	1200669036	885030B36M0407Y	4000	96	1200669252	884030B33M200	20000	106	1200669266	884030B55M050	5000		
	7	1200665457	884030B30M020R	2000	37	1200668899	888030B41M050	5000	67	1200669037	885030B36M0507Y	5000	97	1200669253	885030B33M030	3000	107	1200669267	884030B55M060	6000		
	8	1200665458	884030B30M030R	3000	38	1200668900	888030B41M100	10000	68	1200669038	885030B36M0607Y	6000	98	1200669254	885030B33M050	5000	108	1200669268	884030B55M100	10000		
	9	1200665459	884030B30M040R	4000	39	1200668913	884030B30M150	15000	69	1200669039	885030B36M0807Y	8000	99	1200669255	885030B33M300	30000	109	1200669269	884030B55M120	12000		
D	10	1200665460	884030B30M050R	5000	40	1200668914	884030B30M200	20000	70	1200669040	885030B36M1007Y	10000	100	1200669256	884030B33M300	30000	110	1200669270	884030B55M150	15000		
	11	1200665461	888030B41M010R	1000	41	1200668915	884030B30M250	25000	71	1200669041	885030B36M1207Y	12000	101	1200669257	885030B33M005	500	111	1200669271	884030B55M200	20000		
	12	1200668817	884030B30M006	600	42	1200668916	884030B30M300	30000	72	1200669042	885030B36M1507Y	15000	102	1200669258	885030B33M010	1000	112	1200669280	884030B33M040	4000		
	13	1200668818	884030B30M010	1000	43	1200668917	884030B30M350	35000	73	1200669043	885030B36M1807Y	18000	103	1200669259	885030B33M020	2000	113	1200669418	884030B55M070	7000		
	14	1200668819	884030B30M020	2000	44	1200668918	884030B30M400	40000	74	1200669044	885030B36M2007Y	20000	104	1200669260	885030B33M030	3000	114	1200669480	884030B30M005	500		
C	15	1200668820	884030B30M030	3000	45	1200668919	884030B30M450	45000	75	1200669045	885030B36M2507Y	25000	105	1200669261	885030B33M040	4000	115	1200669481	884030B30M080	8000		
	16	1200668821	884030B30M050	5000	46	1200668920	884030B30M500	50000	76	1200669046	885030B36M3007Y	30000	106	1200669262	885030B33M050	5000	116	1200669482	885030B30M040	4000		
	17	1200668822	884030B30M100	10000	47	1200668921	884030B30M550	55000	77	1200669047	885030B36M3507Y	35000	107	1200669263	885030B33M060	6000	117	1200669483	885030B30M300	30000		
	18	1200668823	885030B42M006	600	48	1200668922	884030B30M600	60000	78	1200669048	885030B36M4007Y	40000	108	1200669264	885030B33M070	7000	118	1200669484	885030B30M060	6000		
	19	1200668824	885030B42M010	1000	49	1200668923	884030B30M650	65000	79	1200669049	885030B36M4507Y	45000	109	1200669265	885030B33M080	8000	119	1200669485	885030B30M080	8000		
B	20	1200668825	885030B42M020	2000	50	1200668924	884030B30M700	70000	80	1200669050	885030B36M5007Y	50000	110	1200669266	885030B33M090	9000	120	1200669486	885030B30M150	15000		
	21	1200668826	885030B42M030	3000	51	1200668925	884030B30M750	75000	81	1200669051	885030B36M5507Y	55000	111	1200669267	885030B33M100	10000						
	22	1200668827	885030B42M050	5000	52	1200668926	884030B30M800	80000	82	1200669052	885030B36M6007Y	60000	112	1200669268	885030B33M110	11000						
	23	1200668828	885030B42M100	10000	53	1200668927	884030B30M850	85000	83	1200669053	885030B36M6507Y	65000	113	1200669269	885030B33M120	12000						
	24	1200668829	884030B36M0507Y	5000	54	1200668928	884030B30M900	90000	84	1200669054	885030B36M7007Y	70000	114	1200669270	885030B33M130	13000						
A	25	1200668860	884030B36M1007Y	10000	55	1200668929	884030B30M950	95000	85	1200669055	885030B36M7507Y	75000	115	1200669271	885030B33M140	14000						
	26	1200668863	884030B30M070	7000	56	1200668930	884030B30M1000	100000	86	1200669056	885030B36M8007Y	80000	116	1200669272	885030B33M150	15000						
	27	1200668889	883030B30M006	600	57	1200668931	884030B30M1050	105000	87	1200669057	885030B36M8507Y	85000	117	1200669273	885030B33M160	16000						
	28	1200668890	883030B30M010	1000	58	1200668932	884030B30M1100	110000	88	1200669058	885030B36M9007Y	90000	118	1200669274	885030B33M170	17000						
	29	1200668891	883030B30M020	2000	59	1200668933	884030B30M1150	115000	89	1200669059	885030B36M9507Y	95000	119	1200669275	885030B33M180	18000						
	30	1200668892	883030B30M030	3000	60	1200668934	884030B30M1200	120000	90	1200669060	885030B36M1007	1000	120	1200669276	885030B33M190	19000						
DOCUMENT STATUS				P1	RELEASE DATE		2021/12/07 06:44:37		7		6		5		4		3		2		1	
FORMAT: mox-16-005A3				REVISION: 1		DATE: 2020/01/11																

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

CURRENT REV DESC: NEW P/N'S ADDED

EC NO: 687807

DRWN: RSCHIEBER

CHK'D: RSILLER

APPR: RSILLER

2021/12/01

2021/12/07

2021/12/07

INITIAL REVISION:

DRWN: JMARSZALEK

APPR: RSILLER

2016/07/22

2016/08/29

DOCUMENT NUMBER

12006688993

DOC TYPE

PSD

DOC PART

000

REVISION

A16

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

12006688993

DOC TYPE

PSD

DOC PART

000

REVISION

A16

MATERIAL NUMBER

SEE SHEET 3 & 4

CUSTOMER

GENERAL MARKET

SHEET NUMBER

3 OF 4

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Molex:

[1200668859](#) [1200669157](#) [1200669181](#) [1200669182](#) [1200669226](#) [1200669250](#) [1200669251](#) [1200669252](#)
[1200669256](#)