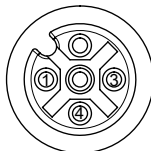
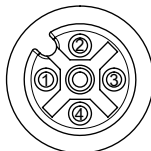


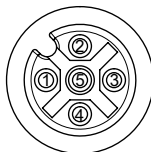
FACE VIEWS



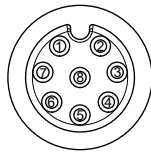
PIN	WIRE COLOR
1	BROWN
2	-
3	BLUE
4	BLACK



PIN	WIRE COLOR
1	BROWN
2	WHITE
3	BLUE
4	BLACK



PIN	WIRE COLOR
1	BROWN
2	WHITE
3	BLUE
4	BLACK
5	GY or GN-YE



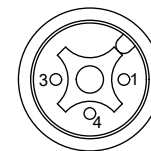
PIN	WIRE COLOR
1	WHITE
2	BROWN
3	GREEN
4	YELLOW
5	GREY
6	PINK
7	BLUE
8	RED

BILL OF MATERIALS

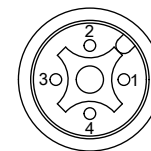
11	X	ID CARRIER (SEE MATRIX)	PVC	-
10	1	STANDARD WRAP LABEL YE	VINYL	-
9	1	INSERT M12 MA XP BK	ELASTOLLAN	-
8	1	INSERT M12 FE XP BK	ELASTOLLAN	-
7	1	NUT M12 MA HEX	BRASS	NICKEL PLATED
6	1	NUT M12 FE HEX	BRASS	NICKEL PLATED
5	1	GASKET RD	FPM	-
4	X	CONTACT FEMALE	BRONZE	GOLD OVER NICKEL PLATED
3	X	CONTACT MALE	CuNi2Si	GOLD OVER NICKEL PLATED
2	-	MOULDING MATERIAL	TPU	-
1	-	CABLE (SEE MATRIX)	-	-
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

RELEASE STATUS	P1	RELEASE DATE	22.08.2016	11:01:26
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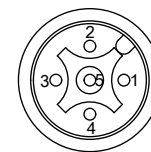
FACE VIEWS



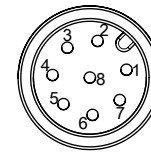
PIN	WIRE COLOR
1	BROWN
2	-
3	BLUE
4	BLACK



PIN	WIRE COLOR
1	BROWN
2	WHITE
3	BLUE
4	BLACK



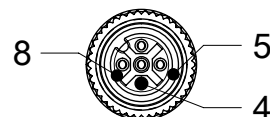
PIN	WIRE COLOR
1	BROWN
2	WHITE
3	BLUE
4	BLACK
5	GY or GN-YE



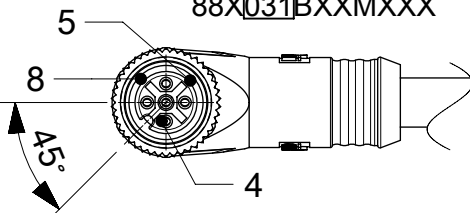
PIN	WIRE COLOR
1	WHITE
2	BROWN
3	GREEN
4	YELLOW
5	GREY
6	PINK
7	BLUE
8	RED

L + TOL. - SEE MATRIX
(SHEET 2)

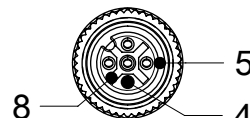
FEMALE STRAIGHT - MALE STRAIGHT
88X030BXXMXXX



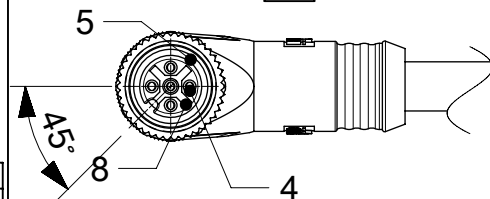
FEMALE RIGHT ANGEL - MALE STRAIGHT
88X031BXXMXXX



FEMALE STRAIGHT - MALE RIGHT ANGEL
88X032BXXMXXX



FEMALE RIGHT ANGLE - MALE RIGHT ANGLE
88X033BXXMXXX



VIEW FROM THE FRONT SIDE
FEMALE 5P

30±5

1 10 11 2 7

TYPE OF NUT AND OVERMOULD COLOR SEE MATRIX

2 x ID CARRIER IF IN MATRIX IS H OR CABLE B36

1 10 11 2 7

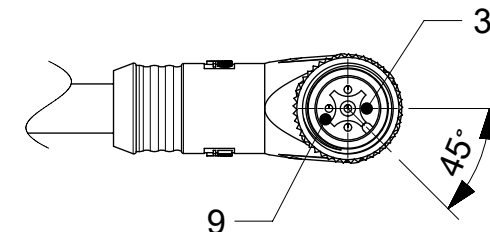
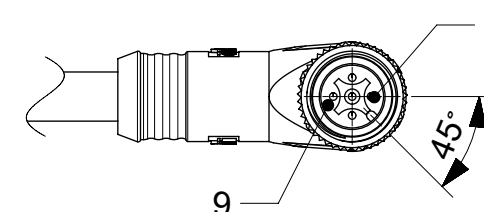
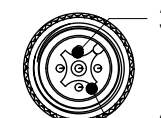
TYPE OF NUT AND OVERMOULD COLOR SEE MATRIX

1 10 11 2 7

2 x ID CARRIER IF IN MATRIX IS H OR CABLE B36

1 10 11 2 7

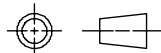
TYPE OF NUT AND OVERMOULD COLOR SEE MATRIX



VIEW FROM THE FRONT SIDE
MALE 5P

NOTE:

1. BRAD LOGO - ONLY IN ONE SIDE ON THE OVERMOULD.

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												
EC NO: 107719 DRWN: MMATLA CHK'D: APPR: MIWASIECZKO	2016/06/23	2016/08/22	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS MM		SCALE 1:1		molex®			
			ANGULAR TOL ±		DRWN BY MMATLA		DATE 2016/06/23					
			4 PLACES ±		CHK'D BY		DATE		CSE M12 XP AC FE XXX TPU MA XXX XM DE			
			3 PLACES ±		APPR BY MIWASIECZKO		DATE 2016/08/22					
			2 PLACES ±		DRAWING SIZE A3		THIRD ANGLE PROJECTION					
			1 PLACE ±									
			0 PLACES ±									
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		PRODUCT CUSTOMER DRAWING							
				SERIES 120065		MATERIAL NUMBER SEE MATRIX (SH 2)			CUSTOMER			
A		REV			DOCUMENT NUMBER 1200659548			DOC TYPE PSD		DOC PART 00P		SHEET NUMBER 1 OF 4

PART No MATRIX - NUMERICAL CODE (AVAILABLE PARTS SEE PART LIST TABLE. OTHERS PARTS AVAILABLE UPON REQUEST).

88 = M12x2

POLES:
3 = 3 POLES
4 = 4 POLES
5 = 5POLES
8 = POLES

HEADER:
030 = FEMALE STRAIGHT / MALE STRAIGHT
031 = FEMALE RIGHT ANGEL / MALE STRAIGHT
032 = FEMALE STRAIGHT/ MALE RIGHT ANGEL
033 = FEMALE RIGHT ANGLE / MALE RIGHT ANGLE

CABLE:
B30 = 0.34mm², TPU BLACK
B33 = 0.34mm², TPU GREY
B36 = 0.34mm², TPU ORANGE
B41 = 0.25mm², TPU BLACK
B42 = 0.34mm², TPU BLACK
B49 = 0.25mm², TPU ORANGE

UNITS:
M = METER
C = CENTIMETER
T = 10 x METER

LENGTH:
EXAMPLES:
010 = 1 UNITS
050 = 5 UNITS
150 = 15 UNITS

H = 2 SZT. I/D CARRIER
COUPLIN NUT:
BLANK = KNU / HEX
7 = TEFLON KNU
5 = PLASTIC NYLON
OVERMOULD:
BLANK = BLACK
A = GREY
G = BLACK
Y = YELLOW

88X030B33MXXXXX		
MOLEX PN	ENGINEERING No	CABLE LENGTH [mm]
1200669223	884030B33M010	1000
1200669224	884030B33M020	2000
1200669225	884030B33M030	3000
1200669226	884030B33M050	5000
1200669247	885030B33M020	2000
1200669248	885030B33M100	10000
1200669249	885030B33M200	20000
1200669250	884030B33M005	500
1200669251	884030B33M100	10000
1200669252	884030B33M200	20000
1200669253	885030B33M030	3000
1200669254	885030B33M050	5000
1200669255	885030B33M300	30000
1200669256	884030B33M300	30000
1200669257	885030B33M005	500
1200669258	885030B33M010	1000

88X030B41MXXXXX		
MOLEX PN	ENGINEERING No	CABLE LENGTH [mm]
1200668870	888030B41M038	3800
1200668895	888030B41M006	600
1200668896	888030B41M010	1000
1200668897	888030B41M020	2000
1200668898	888030B41M030	3000
1200668899	888030B41M050	5000
1200668900	888030B41M100	10000
1200669177	888030B41M090	9000

88X030B42MXXXXX		
MOLEX PN	ENGINEERING No	CABLE LENGTH [mm]
1200659548	885030B42M150	15000
1200659549	885030B42M200	20000
1200668823	885030B42M006	600
1200668824	885030B42M010	1000
1200668825	885030B42M020	2000
1200668826	885030B42M030	3000
1200668827	885030B42M050	5000
1200668828	885030B42M100	10000

88X030B49MXXXXX		
MOLEX PN	ENGINEERING No	CABLE LENGHT [mm]
1200669017	888030B49M015Y	1500
1200669112	888030B49M038Y	3800

TABLE OF LENGTH TOLERANCES		
OVER	UP TO AND INCLUDING	TOLERANCE
0	1000	+40 0
1000	5000	+60 0
5000	10000	+80 0
10000	20000	+140 0
20000	30000	+160 0
30000	>	+1% OF LENGTH

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

2016/06/23

2016/08/22

EC NO: 107719

DRWN: MMATLA

CHK'D: MIWASIECZKO

REV

A

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± °

4 PLACES ±

3 PLACES ±

2 PLACES ±

1 PLACE ±

0 PLACES ±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS

MM

DRWN BY

MMATLA

CHK'D BY

MIWASIECZKO

APPR BY

MIWASIECZKO

DRAWING SIZE

A3

THIRD ANGLE PROJECTION

SCALE

1:1

DATE

2016/06/23

DATE

2016/08/22

CSE M12 XP AC FE XXX TPU MA XXX XM DE

PRODUCT CUSTOMER DRAWING

SERIES

120065

MATERIAL NUMBER

SEE MATRIX

CUSTOMER

DOCUMENT NUMBER

1200659548

DOC TYPE

PSD

DOC PART

00P

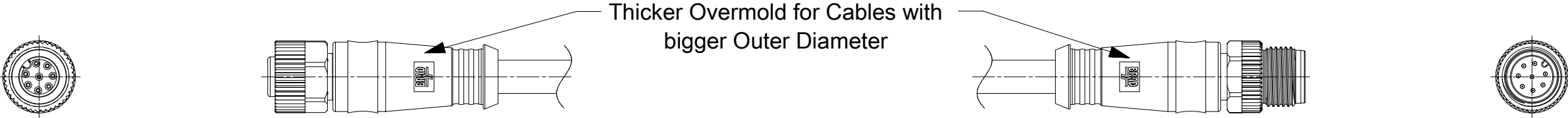
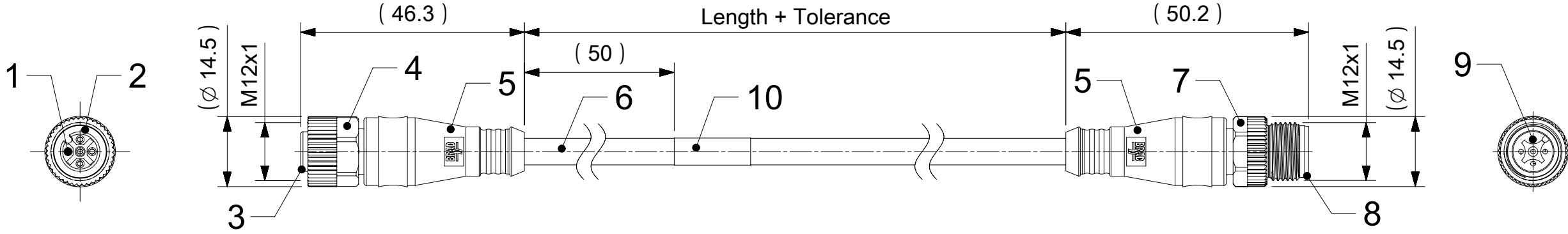
SHEET NUMBER

2 OF 4

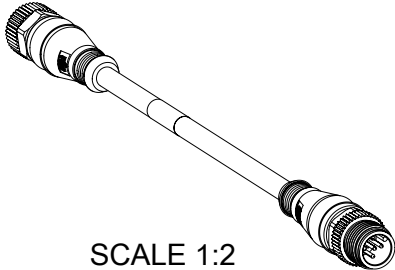
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	MOLEX PN		ENGINEERING No		CABLE LENGTH [mm]		MOLEX PN		ENGINEERING No		CABLE LENGTH [mm]		MOLEX PN		ENGINEERING No		CABLE LENGTH [mm]		MOLEX PN		ENGINEERING No		CABLE LENGTH [mm]																				
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SERIES	MATERIAL NUMBER		CUSTOMER																																								
120065	SEE MATRIX (SH 2)																																										
DOCUMENT NUMBER		DOC TYPE	DOC PART	SHEET NUMBER																																							
1200659548		PSD	00P	3 OF 4																																							
1200669182		884030B30M060		6000		A		REV		EC NO: 107719 DRWN: MMATLA CHK'D: MIWASIECZKO		APPR: MIWASIECZKO		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		A3		THIRD ANGLE PROJECTION																									
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FORMAT: master-b-prod-A3 REVISION: 15 DATE: 2015/12/14		9		8		7		6		5		4		3		2		1																									

E	88X032B30MXXXXX			88X032B41MXXXXX			88X033B30MXXXXX			88X033B42MXXXXX				
	MOLEX PN	ENGINEERING No	CABLE LENGTH [mm]	MOLEX PN	ENGINEERING No	CABLE LENGTH [mm]	MOLEX PN	ENGINEERING No	CABLE LENGTH [mm]	MOLEX PN	ENGINEERING No	CABLE LENGTH [mm]		
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	1200668919	883032B30M010	1000	1200668937	888032B41M010	1000	1200668943	883033B30M010	1000	1200668955	885033B42M010	1000		
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	1200668921	883032B30M030	3000	1200668939	888032B41M030	3000	1200668945	883033B30M030	3000	1200668957	885033B42M030	3000		
	1200668922	883032B30M050	5000	1200668940	888032B41M050	5000	1200668946	883033B30M050	5000	1200668958	885033B42M050	5000		
	1200668923	883032B30M100	10000	1200668941	888032B41M100	10000	1200668947	883033B30M100	10000	1200668959	885033B42M100	10000		
	1200668924	884032B30M006	600	88X032B42MXXXXX			1200668948	884033B30M006	600					
	1200668925	884032B30M010	1000	MOLEX PN	ENGINEERING No	CABLE LENGTH [mm]	1200668949	884033B30M010	1000					
D	1200668926	884032B30M020	2000	1200668930	885032B42M006	600	1200668950	884033B30M020	2000					
	1200668927	884032B30M030	3000	1200668931	885032B42M010	1000	1200668951	884033B30M030	3000					
	1200668928	884032B30M050	5000	1200668932	885032B42M020	2000	1200668952	884033B30M050	5000					
	1200668929	884032B30M100	10000	1200668933	885032B42M030	3000	1200668953	884033B30M100	10000					
	1200669003	885032B30M006	600	1200668934	885032B42M050	5000	1200669009	885033B30M006	600					
	1200669004	885032B30M010	1000	1200668935	885032B42M100	10000	1200669010	885033B30M010	1000					
	1200669005	885032B30M020	2000				1200669011	885033B30M020	2000					
	1200669006	885032B30M030	3000				1200669012	885033B30M030	3000					
	1200669007	885032B30M050	5000				1200669013	885033B30M050	5000					
	1200669008	885032B30M100	10000				1200669014	885033B30M100	10000					
C	88X032B36MXXXXX						88X033B41MXXXXX							
	MOLEX PN	ENGINEERING No	CABLE LENGTH [mm]				MOLEX PN	ENGINEERING No	CABLE LENGTH [mm]					
	1200669075	884032B36M0057Y	500				1200668960	888033B41M006	600					
	1200669076	884032B36M0107Y	1000				1200668961	888033B41M010	1000					
	1200669077	884032B36M0157Y	1500				1200668962	888033B41M020	2000					
	1200669078	884032B36M0207Y	2000				1200668963	888033B41M030	3000					
	1200669079	884032B36M0307Y	3000				1200668964	888033B41M050	5000					
	1200669080	884032B36M0407Y	4000				1200668965	888033B41M100	10000					
	1200669081	884032B36M0507Y	5000											
	1200669082	884032B36M0607Y	6000											
B	1200669083	884032B36M0807Y	8000											
	1200669084	884032B36M1007Y	10000											
	1200669085	884032B36M1207Y	12000											
	1200669086	884032B36M1507Y	15000											
	1200669087	884032B36M2007Y	20000											
	1200669088	884032B36M2507Y	25000											
	1200669089	884032B36M3007Y	30000											
	1200669090	885032B36M0057Y	500											
	1200669091	885032B36M0107Y	1000											
	1200669092	885032B36M0207Y	2000											
A	1200669093	885032B36M0307Y	3000											
	1200669094	885032B36M0407Y	4000											
	1200669095	885032B36M0507Y	5000											
	1200669096	885032B36M0607Y	6000											
	1200669097	885032B36M0807Y	8000											
	1200669098	885032B36M1007Y	10000											
	1200669099	885032B36M1207Y	12000											
	1200669100	885032B36M1507Y	15000											
	1200669101	885032B36M1807Y	18000											
	1200669102	885032B36M2007Y	20000											
RELEASE STATUS				P1	RELEASE DATE		22.08.2016	11:01:26						
9			8			7			6			5		

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										
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		6	PINK
									7	BLUE
									8	RED

CODING REQUIRED TO IEC 61076-2-101

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															
SYMBOLS	DIMENSION UNITS		SCALE		CURRENT REV DESC: ADDED NEW PN'S			molex							
	mm		1:1												
	GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 615681 DRWN: MDHARMANTI 2019/03/05 CHK'D: RSILLER 2019/04/16 APPR: RSILLER 2019/04/16			CSE M12 XP AC FE STR WSOR MA STR XM DE									
	ANGULAR TOL ± 1.0 °														
	4 PLACES ±														
	3 PLACES ±														
	2 PLACES ± 0.05		INITIAL REVISION: DRWN: JMARSZALEK 2016/07/22 APPR: RSILLER 2016/08/29			PRODUCT CUSTOMER DRAWING									
	1 PLACE ± 0.1														
	0 PLACES ± 0.2														
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION
				A3-SIZE		120066		1200668993		PSD		000		A7	
								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

0

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:
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

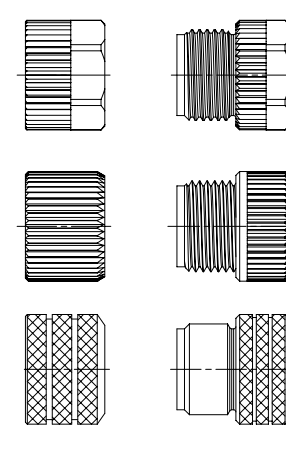
Overmold color:
Blank (Standard)=Black
A=Grey / G=Black / Y=Yellow / R=Red

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)

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-120209-001
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	4	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

SYMBOLS

 = 0

 = 0

 = 0

 = 0

 = 0

 = 0

 = 0

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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 ± 0.1

0 PLACES ± 0.2

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: ADDED NEW PN'S

EC NO: 615681

DRWN: MDHARMANTI 2019/03/05

CHK'D: RSILLER 2019/04/16

APPR: RSILLER 2019/04/16

INITIAL REVISION:

DRWN: JMARSZALEK 2016/07/22

APPR: RSILLER 2016/08/29

THIRD ANGLE PROJECTION

DRAWING A3-SIZE

SERIES 120066

MATERIAL NUMBER SEE SHEET 3

CUSTOMER GENERAL MARKET

SHEET NUMBER 2 OF 3



CSE M12 XP AC FE STR WSOR MA STR XM DE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER 1200668993

DOC TYPE PSD

DOC PART 000

REVISION A7

