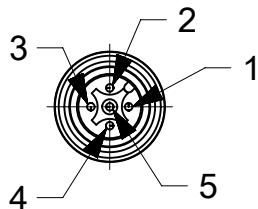


FRONT VIEW



L + Tolerance (see Table on sheet 3)

50 REF

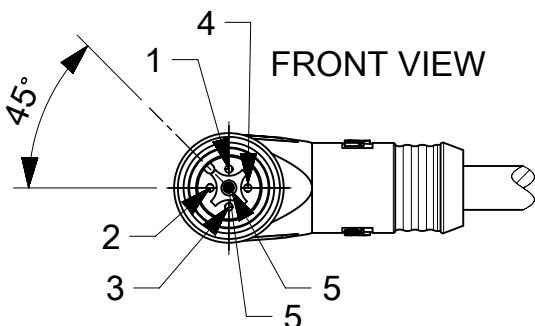
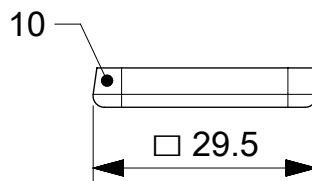
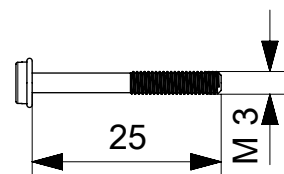
Label

L + Tolerance (see Table on sheet 3)

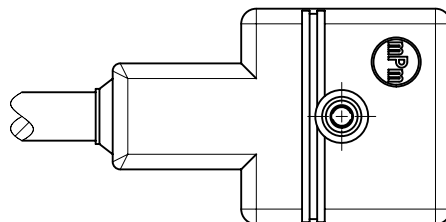
50 REF REF

Label

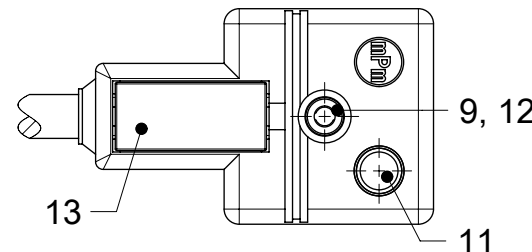
STANDARD
SCREW & GASKET
Index of protection: IP65



DIN Connector views
for PN without LED

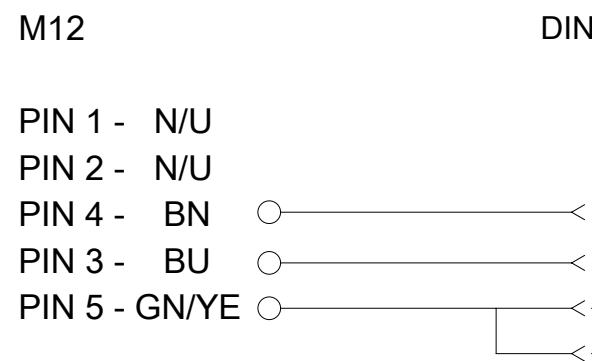
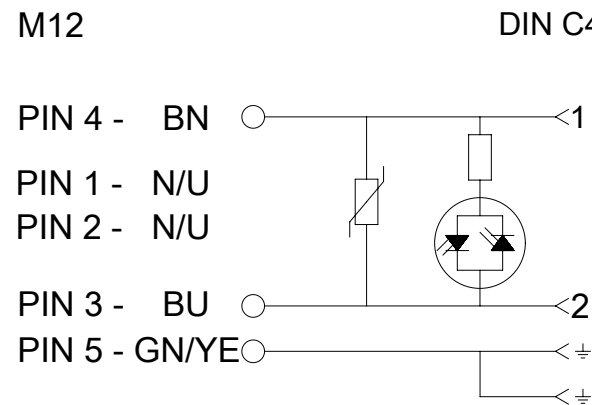
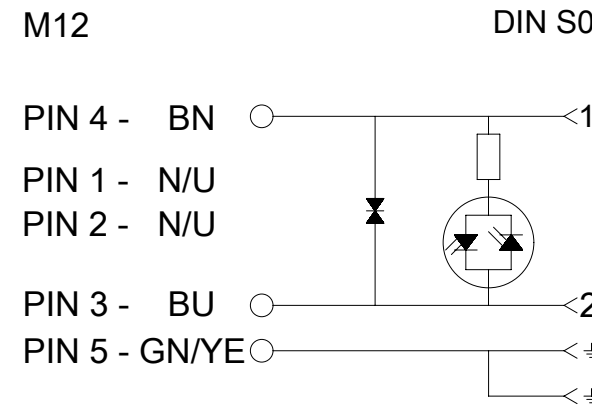


DIN Connector views
for PN with LED



Electrical diagram printed in white

ELECTRICAL DIAGRAMS



BILL OF MATERIALS

14	0/2	I/D CARRIER
13	0/1	LABEL PLASTIC
12	0/1	WASHER
11	0/1	PCB
10	1	GASKET
9	1	SCREW
8	4	CONTACT DIN
7	1	INSERT DIN A
6	-	MOULDING MATERIAL BLACK PP
5	5	CONTACT MALE
4	1	M12 COUPLING NUT MALE
3	1	M12 INSERT 5P MALE
2	-	MOULDING MATERIAL BLACK TPU
1	-	CABLE
ITEM	QTY.	DESCRIPTION

DOCUMENT STATUS	P1	RELEASE DATE	2024/04/05	09:07:10
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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: RETRACTED DOCUMENT				molex				
	mm		1:1										
	= 0		GENERAL TOLERANCES (UNLESS SPECIFIED)				E850 DIN A / MMC 5P MM						
= 0		ANGULAR TOL ± 1.0 °											
= 0		4 PLACES		±		PRODUCT CUSTOMER DRAWING							
= 0		3 PLACES		±									
= 0		2 PLACES		± 0.05									
= 0		1 PLACE		± 0.3									
DIVISIONAL SYMBOLS	= 0		0 PLACES		± 0.5		DOCUMENT NUMBER				DOC TYPE	DOC PART	REVISION
	= 0		= 0		1210350367				PSD	000	B		
	= 0		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER		SHEET NUMBER	
	= 0		= 0		= 0		A3-SIZE		121035	SEE SHEET 3		GENERAL MARKET	

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

OPTIONS

E 8 5 0 X X X X X X X X X X

E=Form A
(18mm
contact
spacing)

8=MMC M12
Connector

5=5 Poles

0=Default Standard Wiring

Electrical configuration:
0 = Without circuit
A = S0 24V Yellow LED
B = C4 24V Yellow LED
C = S0 110V Yellow LED
D = C4 110V Yellow LED
E = S0 24V Green LED
F = C4 24V Green LED
G = S0 110V Green LED
H = C4 110V Green LED
J = S0 24V Red LED
K = C4 24V Red LED
L = S0 110V Red LED
M = C4 110V Red LED
S = C4 230V Yellow LED

DIN Earth Position - o'clock &
M12 connector body:
0 = Earth H6/H12, Male Straight
2 = Earth H6/H12, Male Right Angle

Cable type:
See Table

Units:
M=Meter

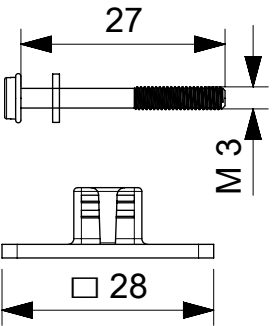
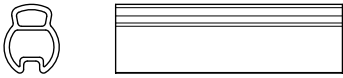
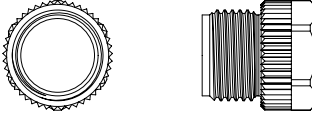
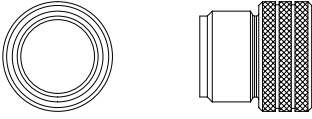
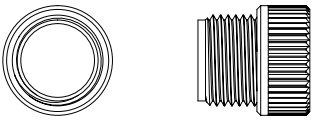
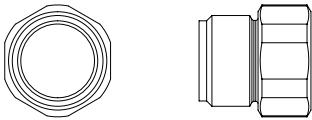
Length
Examples:
005=0.5 units
010=1 units
100=10 units

Overmold color:
Blank (Standard)=Black
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
9=Knurled / Hexagonal Brass Ni Plated

H= 2 pcs. of I/D Carrier PVC Transparent
(Cables lxx & P82 always with
2 pcs. I/D Carrier)

R= NBR Integrated Gasket & Screw (IP67)

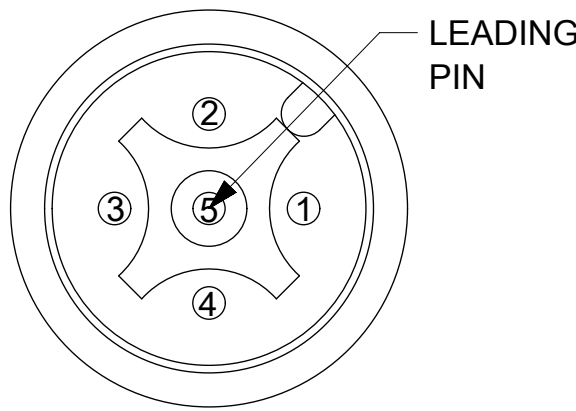


CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	SHIELD
A23	3	0.75mm ²	PVC BLACK	-	-	-20°C to +70°C, 3xO.D.	-15°C to +70°C, 5xO.D.	-
A58	3	20AWG	PVC BLACK	UL 2661	C22.2 II A 105°C/300V	-30°C to +105°C, 10xO.D.	-5°C to +105°C, 15xO.D.	-
B08	3	18AWG	PUR YELLOW	UL 20668	C22.2 II A 90°C/300V	-	-	-
B31	3	0.50mm ²	WSOR BLACK	UL 21215	-	-	-25°C to +80°C, 7.5xO.D.	-
E12	3	0.50mm ²	PVC BLACK	-	-	-20°C to +70°C, 3xO.D.	-15°C to +70°C, 5xO.D.	-
I12	3	0.50mm ²	CEI PVC GREY	-	-	-25°C to +70°C, 10xO.D.	-5°C to +70°C, 15xO.D.	-
P12	3	0.50mm ²	PUR BLACK	-	-	-40°C to +90°C, 7.5xO.D.	-15°C to +90°C, 12.5xO.D.	-
P82	3	0.34mm ²	PUR IRR ORANGE	-	-	-50°C to +105°C, 5xO.D.	-40°C to +105°C, 7.5xO.D.	-

Table of length tolerances [mm]		
Over	Up to and including	Tolerance
0	1000	±20
1000	3000	±30
3000	5000	±40
5000	10000	±50
10000	15000	±100
15000	20000	±150
20000		±L/100

FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																
FA = 0	DIMENSION UNITS		SCALE		CURRENT REV DESC: RETRACTED DOCUMENT					molex							
	mm		1:1														
FE = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 782067 DRWN: VISHAH2 CHK'D: RSILLER APPR: RSILLER					E850 DIN A / MMC 5P MM							
FE = 0	ANGULAR TOL ± 1.0 °																
DIVISIONAL SYMBOLS	4 PLACES		±		2024/03/26					PRODUCT CUSTOMER DRAWING							
	3 PLACES		±												2024/04/05		
	2 PLACES		± 0.05		2024/04/05												
	1 PLACE		± 0.3												INITIAL REVISION: DRWN: APAWLAK01 APPR: RSILLER		
	0 PLACES		± 0.5		2016/05/30 2024/04/05												
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION						DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE	
						A3-SIZE		121035		1210350367		PSD		000		B	
										MATERIAL NUMBER		CUSTOMER		SHEET NUMBER			
										SEE SHEET 3		GENERAL MARKET		2 OF 3			

5P M12 MALE



VIEW FROM FRONT SIDE

PIN	WIRE COLOR
1	TERMINAL
2	TERMINAL
3	BLUE
4	BROWN
5	GREEN/YELLOW BLACK

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

OPTIONS

E 8 5 0 B 2 X X X X X X X X

8=MMC
Single Keyway

5=5 Poles

Cable type:
See Table

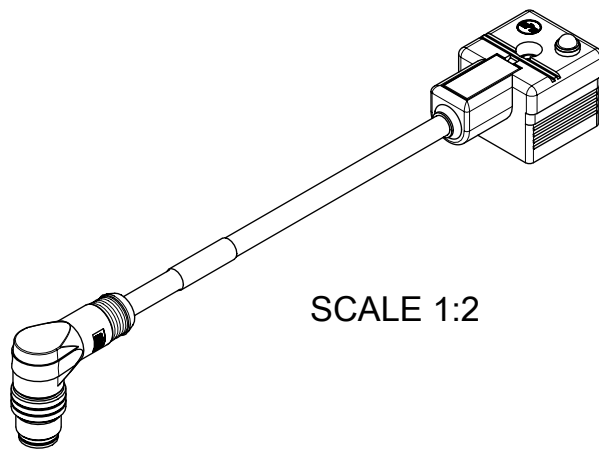
Units:
M=Meter
F=Feet

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

Overmold color:
Blank = Black PUR (STANDARD)
A=Grey / G=Black / Y=Yellow

Coupling Nut:
Blank = Standard
1= Stainless steel
5= Derlin
7= Teflon Coated

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



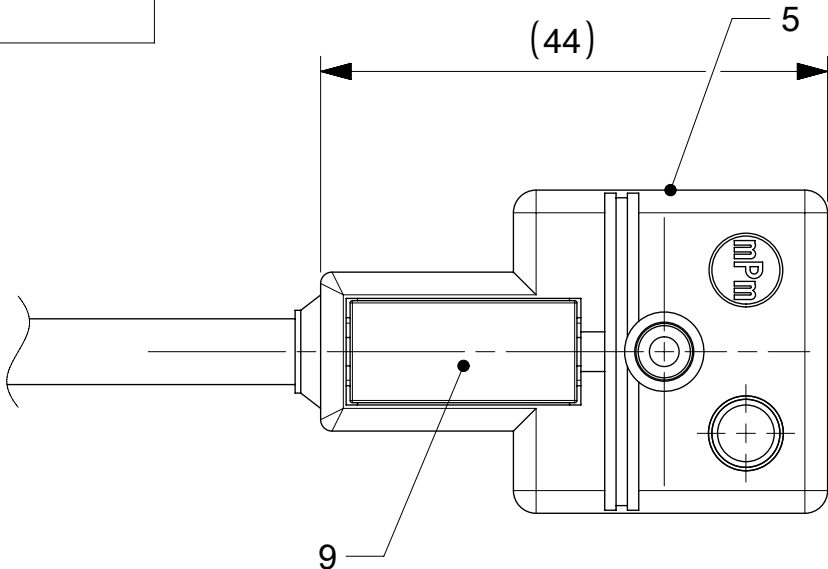
SCALE 1:2

Product Specification:

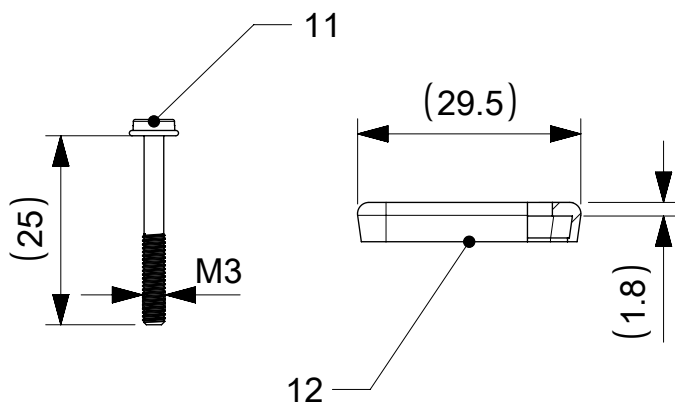
Voltage: 24V

Current max: 4A

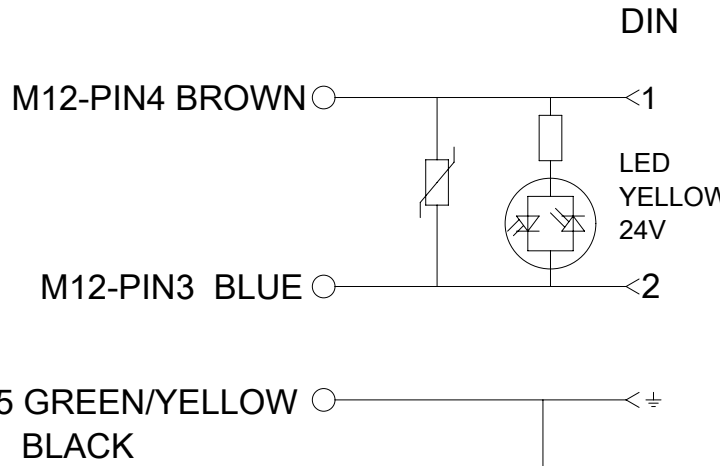
Operating Temperature: -25°C +85°C



ELECTRICAL DIAGRAM C4.
PRINTED IN WHITE



ELECTRICAL DIAGRAM : C4



NOTES:
1. USE 2xI/D CARRIER IF H ON THE END OF PART No MATRIX
OR GREY CABLE lxx

CUSTOMER PRODUCT APPROVAL
APPROVED BY:_____
DATE:_____
MUST BE SIGNED AND RETURNED BEFORE
PRODUCTION WILL BEGIN

Table of length tolerances [mm]		
Over	Up to and including	Tolerance
0	1000	±20
1000	3000	±30
3000	5000	±40
5000	10000	±50
10000	15000	±100
15000	20000	±150
20000		±L/100

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: REMOVED OBSOLETE PART NUMBERS AS PER PCN#512132					molex						
	mm		1:1												
	GENERAL TOLERANCES (UNLESS SPECIFIED)														
	ANGULAR TOL		± 1.0 °						EC NO: 754285 DRWN: VISHAH2 2023/05/24 CHK'D: GGA 2023/07/18 APPR: GGA 2023/07/18 INITIAL REVISION: DRWN: SSM 2018/07/25 APPR: RSILLER 2018/07/26					DIN/MMN 5P 24V MM 90 XM XXX	
4 PLACES		±													
3 PLACES		±													
2 PLACES		± 0.05	PRODUCT CUSTOMER DRAWING												
1 PLACE		± 0.3						DOCUMENT NUMBER 1210360210						DOC TYPE	DOC PART
0 PLACES		± 0.5											PSD	000	A3
DIVISIONAL SYMBOLS	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER		
					A2-SIZE		121036		SEE SHEET 2		GENERAL MARKET		1 OF 2		

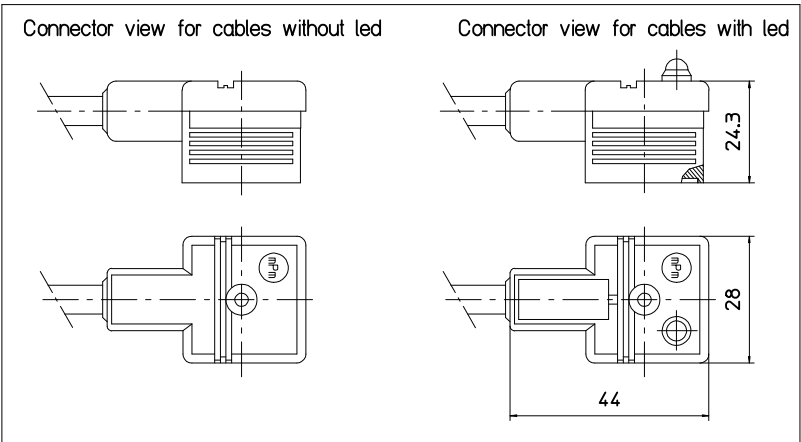
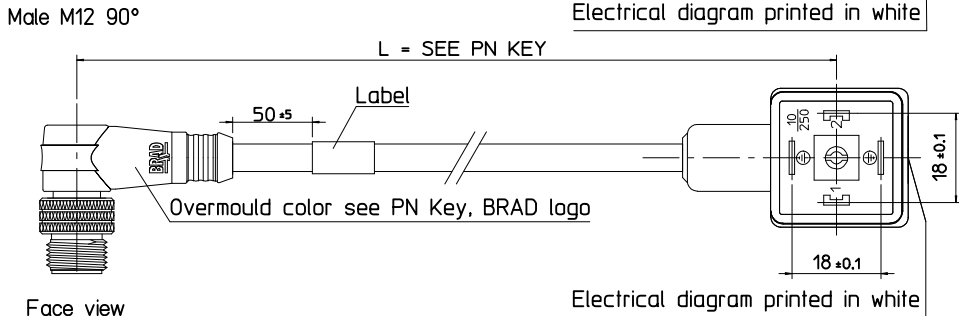
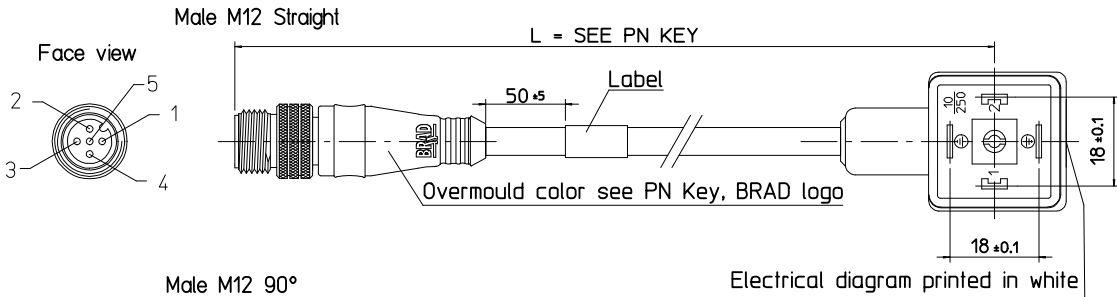
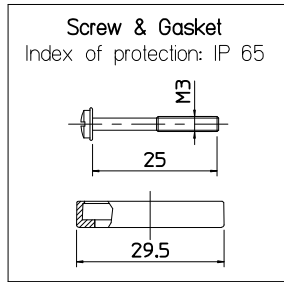
BOM

ITEM No.	QTY.	DESCRIPTION	MATERIAL	FINISH/COLOR
1	-	CABLE	SEE CABLE LIST	SEE CABLE LIST
2	1	MOUNTED INSERT ASSEMBLY	-	BLACK
3	1	PCB WITH COMPONENT	-	-
4	3	CONTACT MALE	BRASS	SELECTIVE GOLD OVER NICKEL
5	-	DIN MOULD COMPOUND	PP	BLACK
6	1	OVERMOULD	SEE MATRIX	SEE MATRIX
7	1	MALE INSERT	PUR	BLACK
8	1	M12 MALE COUPLING NUT	BRASS	Ni-PLATED
9	1	LABEL,PLASTIC	PLASTIC	WHITE
10	1	LABEL WRAP	VINYL	YELLOW
11	1	SCREW	-	-
12	1	GASKET	NBR	BLACK
13	1	PVC LINE TER	PVC	-
14	0/2	2x ID CARRIER	-	-

DOCUMENT STATUS	P1	RELEASE DATE	2023/07/18	08:20:48
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[illegible]

Table of lenght tolerances [mm]		
Over	Up to and including	Tolerance
0	1000	±20
1000	3000	±30
3000	5000	±40
5000	10000	±50
10000	15000	±100
15000	20000	±150
20000		±L/100



PART No MATRIX - PN Key

E	8	5	X	X	X	X	X	X	X	X	X	X	X	X		
E = Form A (18mm contact spacing)	8 = MMC Single Keyway	5=5 Pole	Wiring details: 0 = Positive Switching (pin 3&4) 1 = Negative Switching (pin 1&4)		XXX = Cable Type			M = Metres F = Feet		Length: 020-2 Meters 050-5 Meters 200-20 Meters			H/H/D Co H12 Over Blank=Bl Y=Yellow A=Grey			
			Electrical configuration: 0 = Without LED/Without circuit A = S0 24V Yellow LED B = C4 24V Yellow LED C = S0 110V Yellow LED D = C4 110V Yellow LED E = S0 24V Green LED F = C4 24V Green LED G = S0 110V Green LED H = C4 110V Green LED J = S0 24V Red LED K = C4 24V Red LED L = S0 110V Red LED M = C4 110V Red LED S = C4 230V Yellow LED			DIN Earth Position - o'clock & M12 connector body: 0 = Earth H6/H12, MALE Straight 2 = Earth H6/H12, MALE 90°			Coupling Nut Material: Blank=Standard 1=Stainless Steel 5=Delrin 7=Teflon coat							
										20	07	08	QUALITY	GENE		

ADD CABLE B31 EC NO: IPG2014-0850 DRWN: JMARZALEK 2013/06/20 CHKD: MSZWAJKOWSKI 2013/11/07 APPR: MIWASIECZKO 2013/11/08	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS METRIC	FIRST ANGLE PROJECTION			
				mm	INCH	DRAWN BY JMARZALEK	DATE 2012/11/08	TITLE E85XXXXXXXXXX DIN A + CORDSETS M12				
			4 PLACES	± ---	± ---	CHECKED BY MSZWAJKOWSKI	DATE 2012/11/08					
			3 PLACES	± ---	± ---	APPROVED BY MIWASIECZKO		DATE 2012/11/09	molex			
			2 PLACES	± ---	± ---	MATERIAL NO.		DOCUMENT NO.				
			1 PLACE	± ---	± ---	SEE SHEET 3		SD-121036-001	1 OF 3			
			0 PLACE	± ---	± ---	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						
REV		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS										

PART LIST

Pos.	Molex PN:	Engineering No.:	Pos.	Molex PN:	Engineering No.:	Pos.	Molex PN:	Engineering No.:	Pos.	Molex PN:	Engineering No.:	Pos.	Molex PN:	Engineering No.:
1	1210350133	E85000P12M006	41	1210360356	E850B0P12M030	81	1210360678	E850B2E12M003	121	1210360893	E850B0B31M006	161		
2	1210350148	E85000P12M020	42	1210360399	E850B0P12M003	82	1210360686	E850A2A58M010	122	1210360894	E850B0B31M010	162		
3	1210350156	E85000P12M010	43	1210360453	E850B0P12M012	83	1210360694	E850A0A58M006	123	1210360895	E850B0B31M015	163		
4	1210350157	E85000P12M030	44	1210360454	E850B0P12M013	84	1210360696	E85002E12M003	124	1210360896	E850B0B31M030	164		
5	1210350201	E85000E12M010	45	1210360455	E850B0P12M014	85	1210360708	E850B0A23M030	125	1210360897	E850B2B31M006	165		
6	1210350202	E85002P12M015	46	1210360456	E850B0P12M017	86	1210360719	E850B2A23M017	126	1210360898	E850B2B31M010	166		
7	1210350207	E85000E12M003	47	1210360457	E850B2P12M005	87	1210360725	E850D0A23M030	127	1210360899	E850B2B31M015	167		
8	1210350208	E85000E12M006	48	1210360458	E850D0P12M010	88	1210360743	E850B2I12M006	128	1210360900	E850B2B31M030	168		
9	1210350209	E85000P12M003	49	1210360491	E850A0A58M010	89	1210360745	E850B0I12M006	129	1210361900	E850B0A23M015	169		
10	1210350210	E85000P82M030	50	1210360492	E850A0A58M015	90	1210360754	E850A0A58M005	130			170		
11	1210350242	E85002E12M006	51	1210360493	E850A0A58M030	91	1210360756	E85002E12M030	131			171		
12	1210350290	E85000E12M030	52	1210360494	E850A0A58M050	92	1210360771	E850A0P12M030	132			172		
13	1210350291	E85000E12M050	53	1210360495	E850A0A58M100	93	1210360772	E850A0P12M040	133			173		
14	1210350292	E85000P12M100	54	1210360496	E850B2B08M030	94	1210360773	E850A0P12M100	134			174		
15	1210350309	E85002A23M020	55	1210360497	E850B2P12M025G	95	1210360774	E850A2P12M010	135			175		
16	1210350310	E85002A23M030	56	1210360542	E850B0E12M0155	96	1210360775	E850A2P12M015	136			176		
17	1210350311	E85002A23M040	57	1210360557	E850B0E12M006	97	1210360776	E850A2P12M020	137			177		
18	1210350313	E85000P12M017	58	1210360558	E850B0E12M030	98	1210360788	E850D0P12M006	138			178		
19	1210350326	E85000P12M050	59	1210360559	E850B0E12M050	99	1210360789	E850D0P12M020	139			179		
20	1210350339	E85002P12M020	60	1210360560	E850B0P12M0201	100	1210360795	E850A0P12M006	140			180		
21	1210350348	E85000P12M015	61	1210360574	E850B0E12M020	101	1210360796	E850C0P12M006	141			181		
22	1210350349	E85000P12M009	62	1210360576	E850B2E12M010	102	1210360797	E850A0P12M010	142			182		
23	1210360178	E850A0P12M020	63	1210360585	E850A0A58M020	103	1210360798	E850C0P12M010	143			183		
24	1210360184	E850B0I12M010	64	1210360586	E850B0A58M020	104	1210360799	E850C0P12M020	144			184		
25	1210360186	E850B0I12M020	65	1210360588	E850B0B08M003	105	1210360813	E850A0A58M007	145			185		
26	1210360187	E850B0I12M030	66	1210360589	E850B0B08M010	106	1210360815	E850B0I12M010Y	146			186		
27	1210360192	E850B0P12M006	67	1210360590	E850B0B08M020	107	1210360816	E850B0I12M020Y	147			187		
28	1210360193	E850B0P12M010	68	1210360593	E850B0P12M040	108	1210360817	E850B0I12M030Y	148			188		
29	1210360194	E850B0P12M015	69	1210360594	E850B0P12M100	109	1210360819	E850B0I12M006Y	149			189		
30	1210360195	E850B0P12M020	70	1210360595	E850B0S26M010H	110	1210360821	E850B2P12M015	150			190		
31	1210360196	E850B0P12M050	71	1210360596	E850B2E12M006	111	1210360844	E850B0P12M021	151			191		
32	1210360198	E850B0S26M015	72	1210360601	E850K0E12M010	112	1210360845	E850B0P12M024	152			192		
33	1210360199	E850B0S26M020	73	1210360627	E850B0E12M010	113	1210360846	E850B0P12M027	153			193		
34	1210360203	E850B2I12M010	74	1210360628	E850B0S26M015H	114	1210360847	E850B0P12M058	154			194		
35	1210360206	E850B2I12M050	75	1210360629	E850B2P12M0105	115	1210360848	E850B0P12M080	155			195		
36	1210360208	E850B2P12M006	76	1210360651	E850B2P12M020H	116	1210360849	E850B0P12M085	156			196		
37	1210360209	E850B2P12M010	77	1210360658	E850B0A58M006	117	1210360850	E850B0P12M090	157			197		
38	1210360210	E850B2P12M020	78	1210360659	E850B0A58M015	118	1210360853	E850B2P12M003	158			198		
39	1210360211	E850B2P12M030	79	1210360667	E850A0A58M070	119	1210360857	E850B0P12M010H	159			199		
40	1210360212	E850B2P12M050	80	1210360675	E850C0A58M100	120	1210360858	E850B0P12M020H	160			200		

ADD NEW PN

EC NO: IPG2014-0850

DRWN: MARSZALEK 2013/06/20

CHKD: MSZWAJKOWSKI 2013/11/07

APPR: MIWASIECZKO 2013/11/08

QUALITY SYMBOLS

▽=0

◻=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
0 PLACE	± ---	± ---

ANGULAR ±---°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE

MM ONLY

DRAWN BY DATE

JMARSZALEK 2012/11/08

CHECKED BY DATE

MSZWAJKOWSKI 2012/11/08

APPROVED BY DATE

MIWASIECZKO 2012/11/09

MATERIAL NO.

SEE SHEET 3

SIZE

A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

SCALE

1:1

DESIGN UNITS

METRIC

FIRST ANGLE PROJECTION

TITLE

E85XXXXXXXXXX

DIN A + CORDSETS M12

molex

SD-121036-001

3 OF 3

DOCUMENT NO.

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