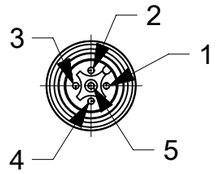
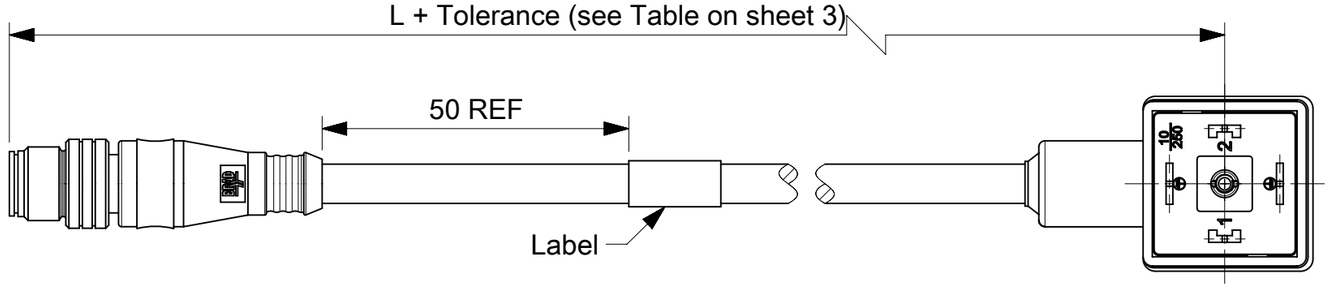
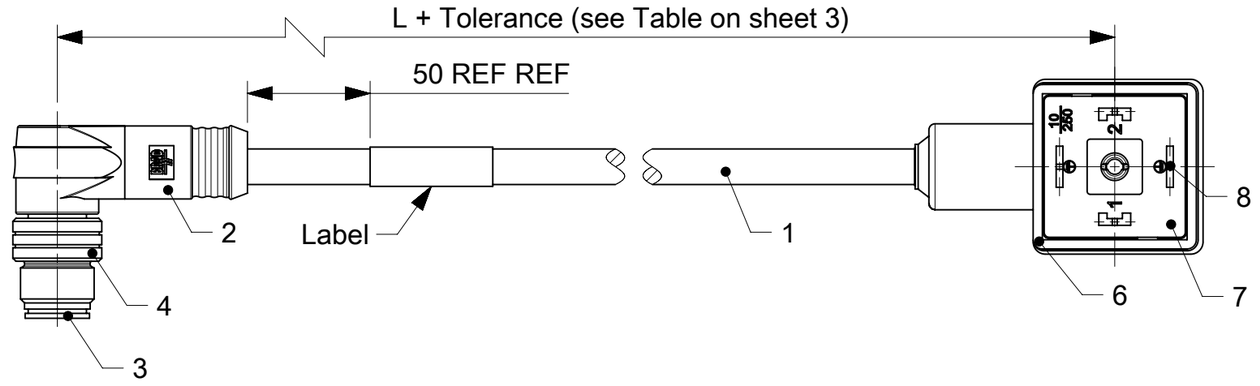
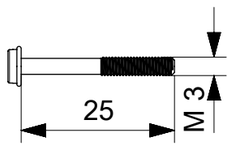
FRONT VIEW

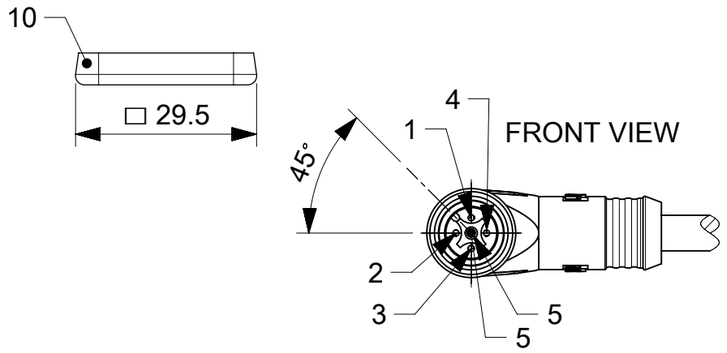




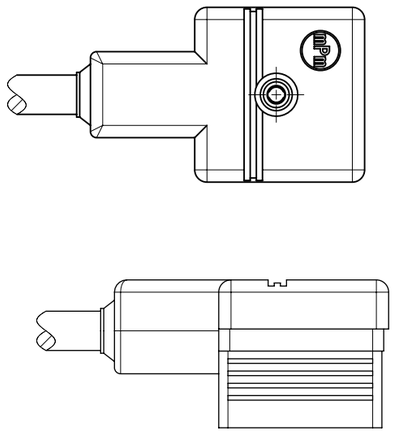


STANDARD
SCREW & GASKET
Index of protection: IP65

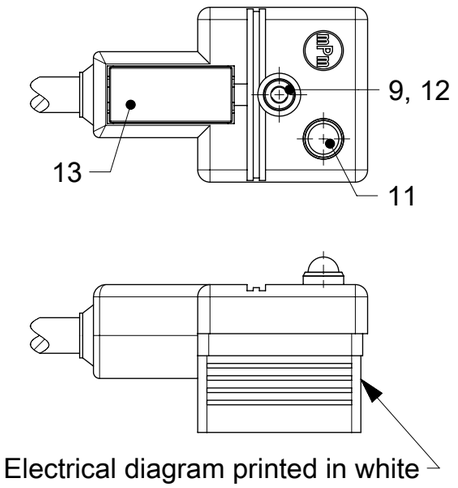




DIN Connector views
for PN without LED



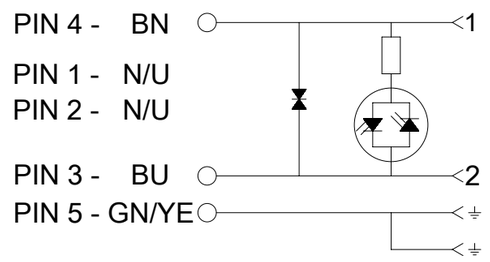
DIN Connector views
for PN with LED



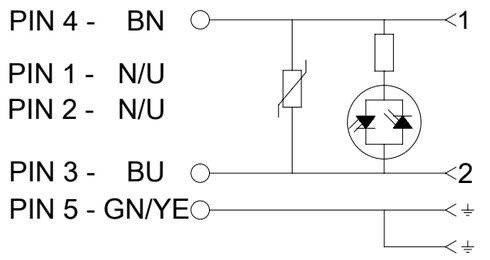
Electrical diagram printed in white

ELECTRICAL DIAGRAMS

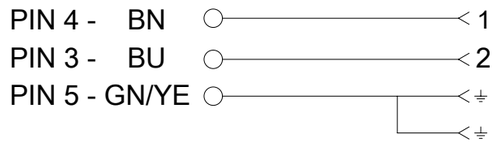
M12 DIN S0



M12 DIN C4



M12 DIN



BILL OF MATERIALS

ITEM	QTY.	DESCRIPTION
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

DOCUMENT STATUS	P1	RELEASE DATE	2025/10/28 09:23:47

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

DIMENSION UNITS	SCALE
mm	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 OBSOLETED PART NUMBERS AS PER PCN#515981

EC NO: 837786
DRWN: RAGHAH3 2025/10/21
CHK'D: GGA 2025/10/28
APPR: GGA 2025/10/28

INITIAL REVISION:
DRWN: APAWLAK01 2016/05/30
APPR: RSILLER 2024/04/05

molex

E850 DIN A / MMC 5P MM

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1210350367	PSD	000	B2

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A3-SIZE	121035	SEE SHEET 3	GENERAL MARKET	1 OF 3

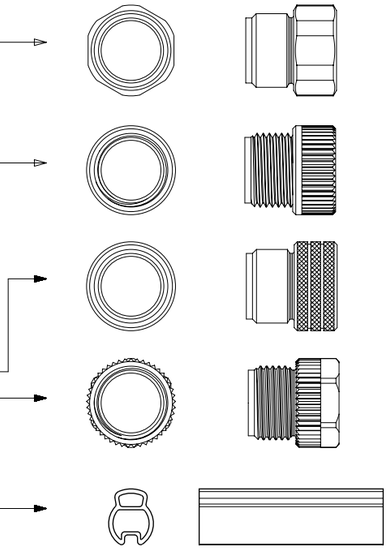
FORMAT: master-ib-prod-A3
REVISION: J1
DATE: 2021/05/01

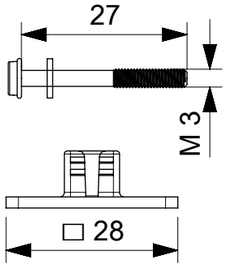
ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Others parts available upon request).

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 Ixx & 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	0.75mm²	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	0.50mm²	WSOR BLACK	UL 21215	-	-	-25°C to +80°C, 7.5xO.D.	-
E12	3	0.50mm²	PVC BLACK	-	-	-20°C to +70°C, 3xO.D.	-15°C to +70°C, 5xO.D.	-
I12	3	0.50mm²	CEI PVC GREY	-	-	-25°C to +70°C, 10xO.D.	-5°C to +70°C, 15xO.D.	-
P12	3	0.50mm²	PUR BLACK	-	-	-40°C to +90°C, 7.5xO.D.	-15°C to +90°C, 12.5xO.D.	
P82	3	0.34mm²	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

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DIMENSION UNITS	SCALE
mm	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 OBSOLETED PART NUMBERS AS PER PCN#515981

EC NO: 837786
DRWN: RAGHAH3 2025/10/21
CHK'D: GGA 2025/10/28
APPR: GGA 2025/10/28

INITIAL REVISION:
DRWN: APAWLAK01 2016/05/30
APPR: RSILLER 2024/04/05

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 121035

molex

E850 DIN A / MMC 5P MM

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1210350367	PSD	000	B2

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE SHEET 3	GENERAL MARKET	2 OF 3

DOCUMENT STATUS	P1	RELEASE DATE	2025/10/28 09:23:47

FORMAT: master-ib-prod-A3
REVISION: J1
DATE: 2021/05/01

PART LIST

Pos.	Part No.	Engineering No.	Cable Length
1	1210350133	E85000P12M006	0.6m
25	1210360178	E850A0P12M020	2m
29	1210360192	E850B0P12M006	0.6m
30	1210360193	E850B0P12M010	1m
31	1210360194	E850B0P12M015	1.5m
32	1210360195	E850B0P12M020	2m
33	1210360196	E850B0P12M050	5m
37	1210360209	E850B2P12M010	1m
39	1210360211	E850B2P12M030	3m
41	1210360356	E850B0P12M030	3m
42	1210360399	E850B0P12M003	0.3m
49	1210360491	E850A0A58M010	1m
50	1210360492	E850A0A58M015	1.5m
51	1210360493	E850A0A58M030	3m
52	1210360494	E850A0A58M050	5m
53	1210360495	E850A0A58M100	10m
55	1210360497	E850B2P12M025G	2.5m
60	1210360559	E850B0E12M050	5m
62	1210360574	E850B0E12M020	2m
70	1210360594	E850B0P12M100	10m
71	1210360596	E850B2E12M006	0.6m
74	1210360627	E850B0E12M010	1m
84	1210360694	E850A0A58M006	0.6m
86	1210360708	E850B0A23M030	3m
88	1210360719	E850B2A23M017	1.7m
89	1210360725	E850D0A23M030	3m
92	1210360754	E850A0A58M005	0.5m
101	1210360789	E850D0P12M020	2m
107	1210360813	E850A0A58M007	0.7m
109	1210360816	E850B0I12M020Y	2m
110	1210360817	E850B0I12M030Y	3m
112	1210360821	E850B2P12M015	1.5m
134	1210360970	E850B0P12M010R	1m
136	1210361900	E850B0A23M015	1.5m

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DIMENSION UNITS	SCALE
mm	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 OBSOLETED PART NUMBERS AS PER PCN#515981

EC NO: 837786

DRWN:	RAGHAH3	2025/10/21
CHK'D:	GGA	2025/10/28
APPR:	GGA	2025/10/28

INITIAL REVISION:

DRWN:	APAWLAK01	2016/05/30
APPR:	RSILLER	2024/04/05

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 121035

molex

E850 DIN A / MMC 5P MM

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
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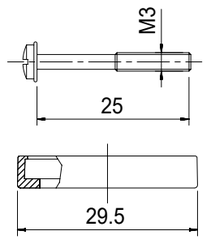
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SEE PART LIST	GENERAL MARKET	3 OF 3

DOCUMENT STATUS	P1	RELEASE DATE	2025/10/28 09:23:47

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REVISION: J1
DATE: 2021/05/01

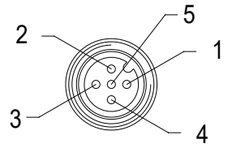
Table of lenght tolerances [mm]		
Over	Up to and including	Tolerance
0	1000	±20
1000	3000	±30
3000	5000	±40
5000	10000	±50
10000	15000	±100
15000	20000	±150
20000		±L/100

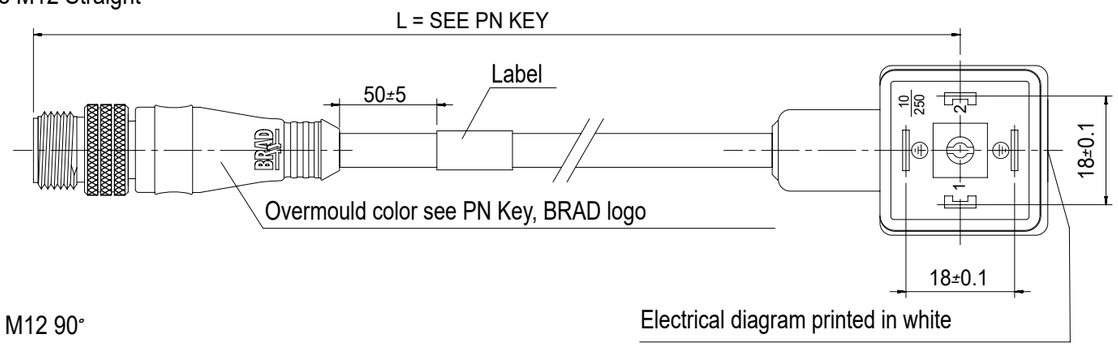
Screw & Gasket
Index of protection: IP 65



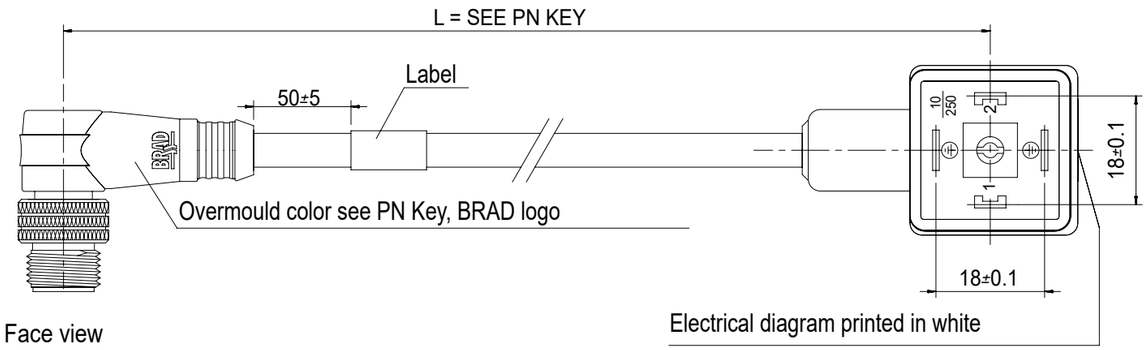
Male M12 Straight

Face view

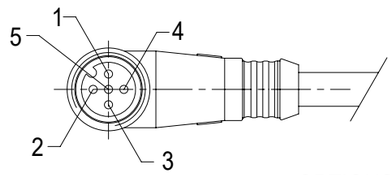




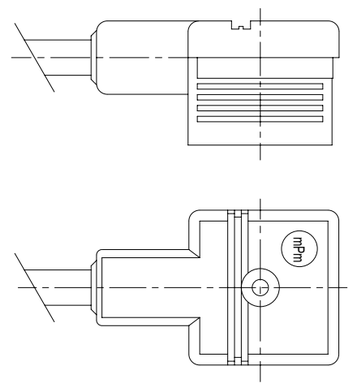
Male M12 90°



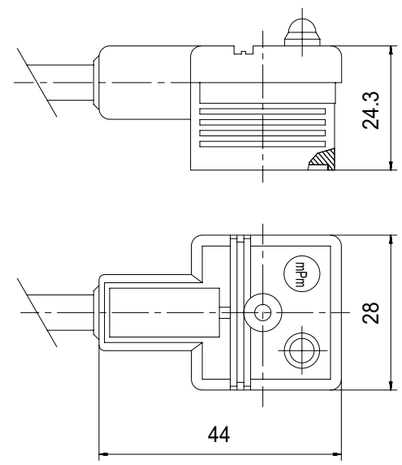
Face view



Connector view for cables without led



Connector view for cables with led



PART No MATRIX - PN Key

OPTIONS

E	8	5	X	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)
- 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°
- XXX = Cable Type
- M = Metres, F = Feet
- Length:
  - 020=2 Meters
  - 050=5 Meters
  - 200=20 Meters
- Coupling Nut Material:
  - Blank=Standard
  - 1=Stainless Steel
  - 5=Delrin
  - 7=Teflon coat
- H=I/D Carrier
- M12 Overmoulding color:
  - Blank=Black Standard
  - Y=Yellow
  - A=Grey

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DIMENSION UNITS	SCALE
mm	NTS

GENERAL TOLERANCES (UNLESS SPECIFIED)

	MM	INCH
4 PLACES	±	±
3 PLACES	±	±
2 PLACES	±	±
1 PLACE	±	±
0 PLACES	±	±
ANGULAR TOL	± °	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVED OBSOLETED PART NUMBER AS PER PCN#515981

EC NO: 837779
DRWN: PONNAM 2025/10/17
CHK'D: GGA 2025/10/28
APPR: GGA 2025/10/28

INITIAL REVISION:
DRWN: JMARSZALEK 2012/11/08
APPR: MIWASIECZKO 2012/11/09

FIRST ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 121036

molex

E85XXXXXXXXXX
DIN A + CORDSETS M12

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-121036-001	PSD	001	C2

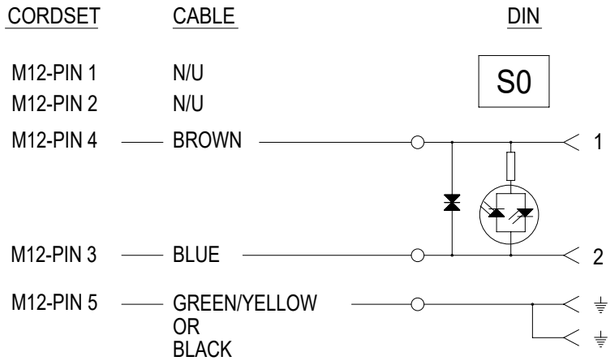
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE SHEET 3	GENERAL MARKET	1 OF 3

DOCUMENT STATUS	P1	RELEASE DATE	2025/10/28 11:08:25

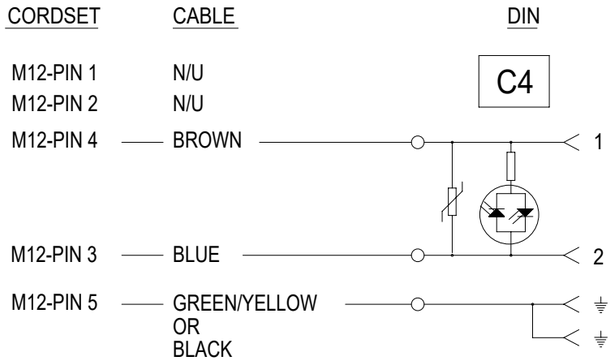
FORMAT: Met-bom-folder-tb-prod-A3
REVISION: E1
DATE: 2021/05/01

Electrical diagrams

Electrical diagram with circuit S0 (zener diode) for:



Electrical diagram with circuit C4 (VDR) for:



Cable type

Cable Type	Jacket Material	Jacket Color	Wire cross section	Braid
A23	PVC	Black	0.75mm²	no
A58	PVC	Black	20AWG	no
B08	PUR	Yellow	18AWG	no
E03	PVC	Black	0.34mm²	no
E12	PVC	Black	0.5mm²	no
I12	CEI PVC	Grey	0.5mm²	no
P12	PUR	Black	0.5mm²	no
P82	PUR IRR	Orange	0.34mm²	no
S26	PVC	Yellow	0.34mm²	yes
B31	PUR	Black	0.5mm²	no

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DIMENSION UNITS	SCALE
mm	NTS

GENERAL TOLERANCES (UNLESS SPECIFIED)

	MM	INCH
4 PLACES	±	±
3 PLACES	±	±
2 PLACES	±	±
1 PLACE	±	±
0 PLACES	±	±
ANGULAR TOL	± °	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVED OBSOLETED PART NUMBER AS PER PCN#515981

EC NO: 837779
DRWN: PONNAM 2025/10/17
CHK'D: GGA 2025/10/28
APPR: GGA 2025/10/28

INITIAL REVISION:
DRWN: JMARSZALEK 2012/11/08
APPR: MIWASIECZKO 2012/11/09

molex

E85XXXXXXXXX
DIN A + CORDSETS M12

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-121036-001	PSD	001	C2

FIRST ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A3-SIZE	121036	SEE SHEET 3	GENERAL MARKET	2 OF 3

DOCUMENT STATUS	P1	RELEASE DATE	2025/10/28 11:08:25

FORMAT: Mel-lega-master-tb-prod-A3
REVISION: E1
DATE: 2021/05/01

PART LIST

Pos.	Molex PN:	Engineering No:
1	1210350133	E85000P12M006
2	1210360178	E850A0P12M020
3	1210360192	E850B0P12M006
4	1210360193	E850B0P12M010
5	1210360194	E850B0P12M015
6	1210360195	E850B0P12M020
7	1210360196	E850B0P12M050
8	1210360209	E850B2P12M010
9	1210360211	E850B2P12M030
10	1210360356	E850B0P12M030
11	1210360399	E850B0P12M003
12	1210360491	E850A0A58M010
13	1210360492	E850A0A58M015
14	1210360493	E850A0A58M030
15	1210360494	E850A0A58M050
16	1210360495	E850A0A58M100
17	1210360497	E850B2P12M025G
18	1210360559	E850B0E12M050
19	1210360574	E850B0E12M020
21	1210360594	E850B0P12M100
22	1210360596	E850B2E12M006
23	1210360627	E850B0E12M010
24	1210360694	E850A0A58M006
25	1210360708	E850B0A23M030
26	1210360719	E850B2A23M017
27	1210360725	E850D0A23M030
28	1210360754	E850A0A58M005
29	1210360789	E850D0P12M020
30	1210360813	E850A0A58M007
31	1210360816	E850B0I12M020Y
32	1210360817	E850B0112M030Y
33	1210360821	E850B2P12M015
35	1210361900	E850B0A23M015

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

DIMENSION UNITS	SCALE
mm	NTS

GENERAL TOLERANCES (UNLESS SPECIFIED)

	MM	INCH
4 PLACES	±	±
3 PLACES	±	±
2 PLACES	±	±
1 PLACE	±	±
0 PLACES	±	±
ANGULAR TOL	± °	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVED OBSOLETED PART NUMBER AS PER PCN#515981

EC NO: 837779

DRWN:	PONNAM	2025/10/17
CHK'D:	GGA	2025/10/28
APPR:	GGA	2025/10/28

INITIAL REVISION:

DRWN:	JMARSZALEK	2012/11/08
APPR:	MIWASIECZKO	2012/11/09

molex

E85XXXXXXXXXX
DIN A + CORDSETS M12

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-121036-001	PSD	001	C2

FIRST ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A3-SIZE	121036	SEE SHEET 3	GENERAL MARKET	3 OF 3

DOCUMENT STATUS	P1	RELEASE DATE	2025/10/28 11:08:25

FORMAT: Mel-lega-master-lb-prod-A3
REVISION: E1
DATE: 2021/05/01