

10987654321

PN KEY ENGINEERING PN

E452XXXXXX

E - Packing without bag
W - Single Packing

Number of wires:
2 - 2 Wires + Earth

Cable type:
See Table

Head Colour:
G - Grey
N - Black
A - CSA-UL Black
B - CSA-UL Grey

Cable Length in[cm]
050 = 50cm
300 = 300cm
10K = 1000cm

Earth PIN location (see insert orientation table):
1 = Double Earth on H6 & H12
2 = Earth on H12
3 = Earth on H3
4 = Double Earth on H3 & H9
6 = Earth on H6
9 = Earth on H9

Wiring Configuration:
See sheet 3

Voltage and Led Colour
Red Led:
1 = 12V
2 = 24V
3 = 48V
4 = 115V
5 = 230V
Green Led:
A = 12V
B = 24V
C = 48V
D = 115V
E = 230V
Yellow Led:
G = 12V
H = 24V
K = 48V
L = 115V
M = 230V

Type of Gasket and Screw (see sheet 1):
1 = NBR Profile Gasket + Fixing Screw M3x25mm
2 = NBR Flat Gasket + Fixing Screw M3x25mm
3 = Silicone Profile Gasket + Fixing Screw M3x25mm
4 = Silicone Flat Gasket + Fixing Screw M3x25mm
P = NBR Integrated Gasket + Fixing Screw with Washer M3x27mm Assembled on Connector
R = NBR Integrated Gasket + Fixing Screw with Washer M3x27mm NOT Assembled on Connector
T = NBR Profile Gasket + Fixing Screw with Washer M3x27mm

CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE O.D.	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	SHIELD
A2	3	AWG 20	5.6mm±0.2	PVC BLACK	UL 2661	CSA C22.2	-30°C to +105°C, 10xO.D.	-5°C to +105°C, 15xO.D.	-
A3	3	AWG 18	6.5mm±0.25	PVC BLACK	UL 2661	CSA C22.2	-30°C to +105°C, 10xO.D.	-5°C to +105°C, 15xO.D.	-
B2	3	AWG 20	5.6mm±0.2	PUR BLACK	UL 20668	CSA C22.2	-40°C to +90°C, 5xO.D.	-25°C to +90°C, 10xO.D.	-
B3	3	AWG 18	6.5mm±0.2	PUR BLACK	UL 20668	CSA C22.2	-40°C to +90°C, 5xO.D.	-25°C to +90°C, 10xO.D.	-
F4	3	1mm²	7.1mm+0.2	PVC GREY	-	-	-15°C to +70°C, 10xO.D.	-5°C to +60°C, 15xO.D.	-
I0	3	1mm²	7.6mm±0.2	PVC GREY	-	-	-25°C to +70°C, 10xO.D.	-5°C to +70°C, 15xO.D.	YES
I2	3	0.5mm²	5.5mm+0.3	PVC GREY	-	-	-25°C to +70°C, 10xO.D.	-5°C to +70°C, 15xO.D.	-
I3	3	0.75mm²	6.0mm±0.2	PVC GREY	-	-	-25°C to +70°C, 10xO.D.	-5°C to +70°C, 15xO.D.	-
I4	3	1mm²	7.1mm+0.2	PVC GREY	-	-	-25°C to +70°C, 10xO.D.	-5°C to +70°C, 15xO.D.	-
N2	3	0.5mm²	5.6mm±0.7	PVC BLACK	-	-	-20°C to +70°C, 3xO.D.	-15°C to +70°C, 5xO.D.	-
N3	3	0.75mm²	6.8mm±0.8	PVC BLACK	-	-	-20°C to +70°C, 3xO.D.	-15°C to +70°C, 5xO.D.	-
N4	3	1mm²	7.15mm±0.85	PVC BLACK	-	-	-20°C to +70°C, 3xO.D.	-15°C to +70°C, 5xO.D.	-
P1	3	0.34mm²	5.3mm±0.2	PUR BLACK	-	-	-25°C to +80°C, 10xO.D.	-5°C to +80°C, 15xO.D.	-
P2	3	0.5mm²	5.5mm+0.3	PUR BLACK	-	-	-40°C to +90°C, 7.5xO.D.	-15°C to +90°C, 12.5xO.D.	-
P3	3	0.75mm²	6.5mm±0.2	PUR BLACK	-	-	-40°C to +90°C, 7.5xO.D.	-15°C to +90°C, 12.5xO.D.	-
R4	3	1mm²	7.1mm±0.2	TPR HF BLACK	-	-	-	-	-
Y3	3	0.75mm²	6.5mm±0.2	SILICONE RED	-	-	-60°C to +180°C, 15xO.D.	-	-

Notes:
1. Please see excel sheet 1210502000_PDP for currently configured part numbers.
2. Drawing is a replacement for: SD-121050-001

DOCUMENT STATUS

P1

RELEASE DATE

2018/08/31

12:24:53

SYMBOLS

▽ = 0

▽ = 0

▽ = 0

▽ = 0

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DIMENSION UNITS

mm

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL

±

°

4 PLACES

±

3 PLACES

±

2 PLACES

±

1 PLACE

±

0 PLACES

±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

SCALE

1:1

CURRENT REV DESC:

EC NO: 603741

DRWN: APAWLAK01

CHK'D: RSILLER

APPR: RSILLER

2018/07/13

2018/08/31

2018/08/31

INITIAL REVISION:

DRWN: APAWLAK01

APPR: RSILLER

2018/07/13

2018/08/31

THIRD ANGLE PROJECTION

DRAWING

SERIES

A3-SIZE

121050

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

SEE 1210502000_PDP

GENERAL MARKET

2 OF 3

molex

STANDARD E452 DIN FORM A EN 175301-803

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1210502000

DOC TYPE

PSD

DOC PART

000

REVISION

A

10987654321

DOCUMENT STATUS

P1

RELEASE DATE

2018/08/31

12:24:53

7

6

5

4

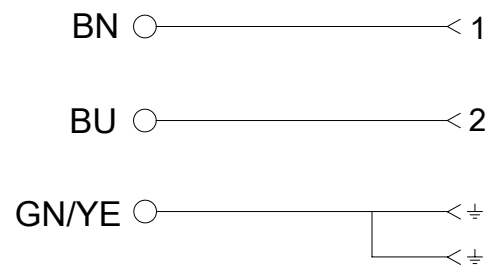
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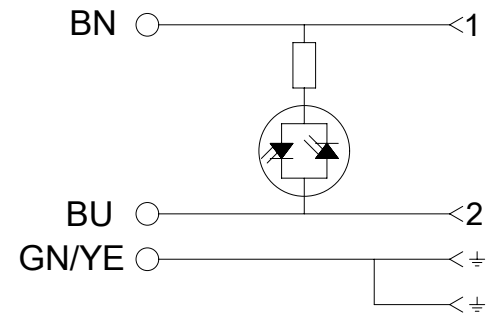
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WIRING DIAGRAMS

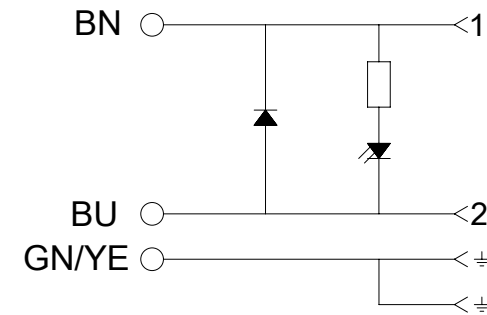
ELECTRICAL DIAGRAM 00



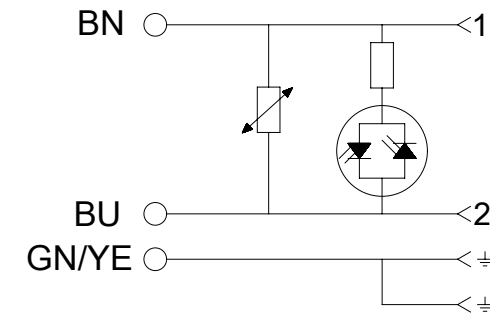
ELECTRICAL DIAGRAM A1



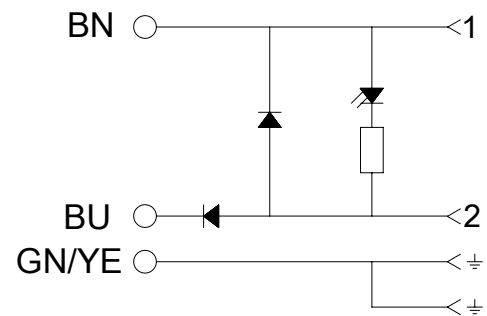
ELECTRICAL DIAGRAM C3



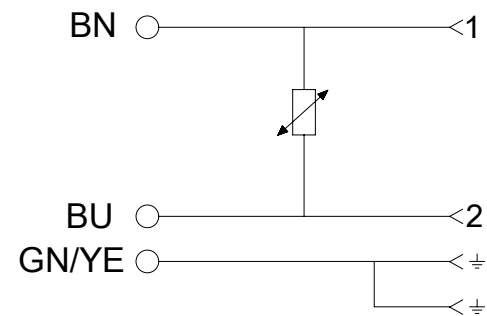
ELECTRICAL DIAGRAM C4



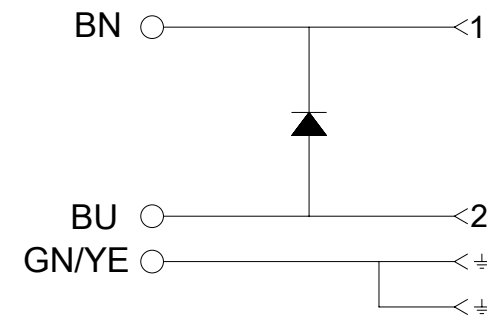
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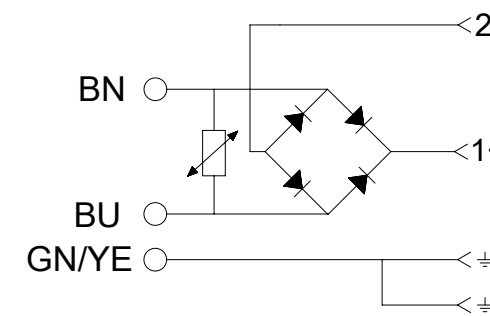
ELECTRICAL DIAGRAM D0



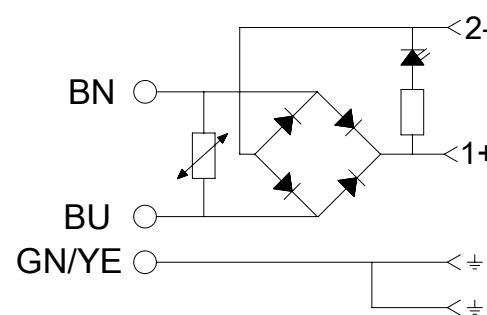
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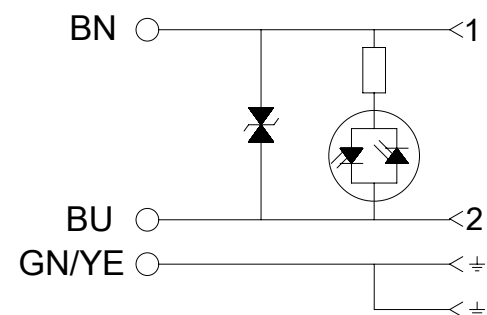
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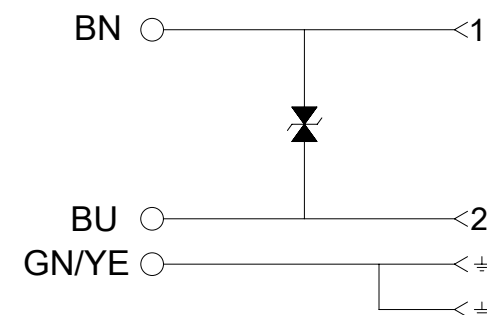
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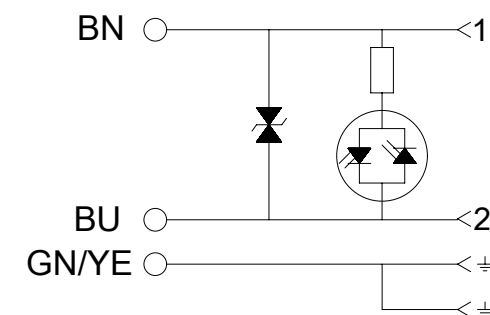
ELECTRICAL DIAGRAM S0



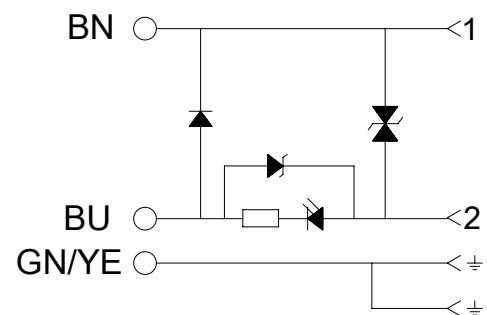
ELECTRICAL DIAGRAM S1



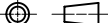
ELECTRICAL DIAGRAM S3

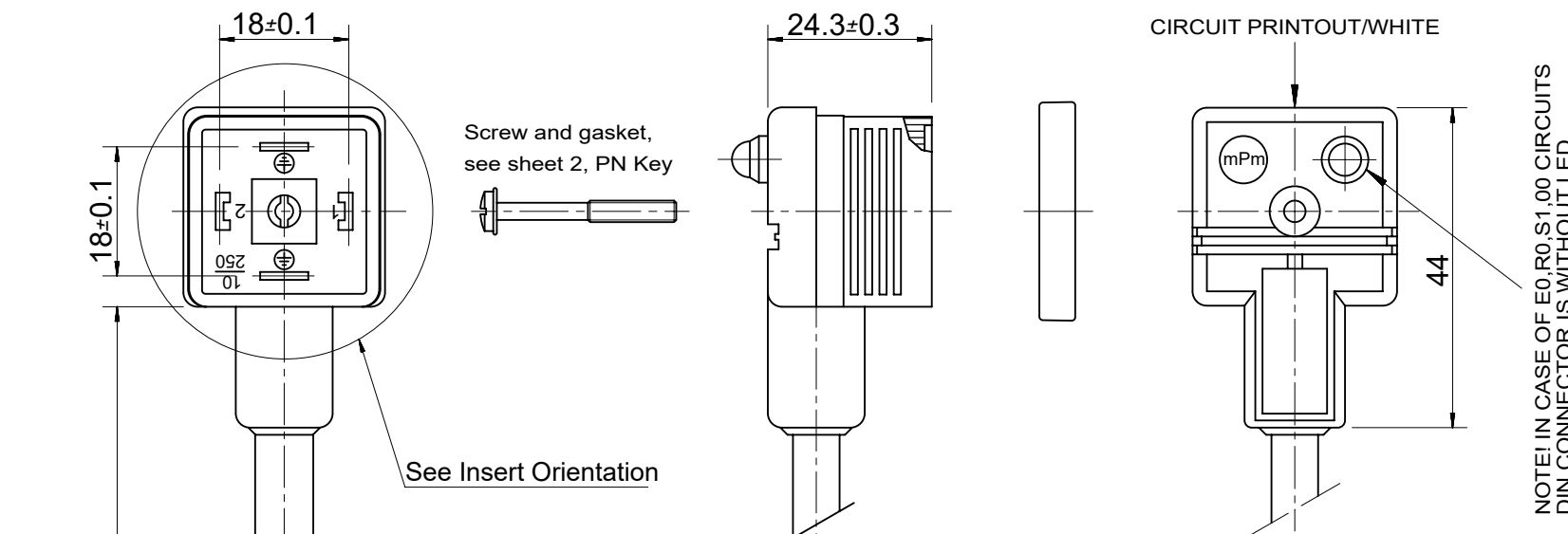


ELECTRICAL DIAGRAM NS



Technical Spec:
Supply Voltage: See PN KEY
Max. current: 5A; A1-C4-S0
1,5A; R2
Contact Resistance: ≤15milliohms max.
Operating Temperature:
with NBR Gasket: -40°C +90°C
with Silicone: -40°C +125°C

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:					
 = 0		mm		1:1		molex STANDARD E452 DIN FORM A EN 175301-803					
 = 0		GENERAL TOLERANCES (UNLESS SPECIFIED)									
 = 0		ANGULAR TOL ± °									
 = 0		4 PLACES		±							
 = 0		3 PLACES		±		EC NO: 603741 DRWN: APAWLAK01 2018/07/13 CHK'D: RSILLER 2018/08/31 APPR: RSILLER 2018/08/31					
 = 0		2 PLACES		±		INITIAL REVISION:					
 = 0		1 PLACE		±		DRWN: APAWLAK01 2018/07/13					
 = 0		0 PLACES		±		APPR: RSILLER 2018/08/31					
 = 0		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION 		DRAWING A3-SIZE		SERIES 121050	
						MATERIAL NUMBER SEE 1210502000_PDP		CUSTOMER GENERAL MARKET		SHEET NUMBER 3 OF 3	



DOUBLE EARTH ON 6H & 12H E452XXXXXX1XXXX	EARTH PIN ON 12H E452XXXXXX2XXXX	EARTH PIN ON 6H E452XXXXXX6XXXX
DOUBLE EARTH ON 3H & 9H E452XXXXXX4XXXX	EARTH PIN ON 3H E452XXXXXX3XXXX	EARTH PIN ON 9H E452XXXXXX9XXXX

DOUBLE EARTH ON 6H & ON 12H
E452XXXXXX1XC3X
E452XXXXXX1XC7X
E452XXXXXX1XR0X
E452XXXXXX1XR2X

NOTE! IN CASE OF CIRCUIT C3,C7,R0,R2 HOUSING INVERSE OF 180°.

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

WIRING CONFIGURATION

ELECTRICAL DIAGRAM R0	ELECTRICAL DIAGRAM C4	ELECTRICAL DIAGRAM S0
ELECTRICAL DIAGRAM S3	ELECTRICAL DIAGRAM A1	ELECTRICAL DIAGRAM C3
ELECTRICAL DIAGRAM E0 Note: Circuit E0 works from 12V to 230V Only one type in coding E452XXXXXXE05	ELECTRICAL DIAGRAM R2	ELECTRICAL DIAGRAM C7
ELECTRICAL DIAGRAM S1	ELECTRICAL DIAGRAM 00 WITHOUT LED	

NOTES:
1. FOR HARNESS WITH GROUND ONLY IN:
3H,6H,9H or 12H PIN 3 IS N/C.

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS mm		SCALE NTS		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#515981					
GENERAL TOLERANCES (UNLESS SPECIFIED)									
		MM INCH		EC NO: 837779 DRWN: PONNAM 2025/10/18 CHK'D: GGA 2025/10/28 APPR: GGA 2025/10/28				E452XXXXXXXXXX DIN FORM A EN 175301-803	
4 PLACES ± ±				INITIAL REVISION:				PRODUCT CUSTOMER DRAWING	
3 PLACES ± ±				DRWN: JMARSZALEK 2012/08/27				DOCUMENT NUMBER	
2 PLACES ± ±				APPR: MDYSZEWSKA 2012/08/20				SD-121050-001	
1 PLACE ± ±								DOC TYPE	
0 PLACES ± ±								DOC PART	
ANGULAR TOL ± °								REVISION	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		FIRST ANGLE PROJECTION		DRAWING		SERIES		SHEET NUMBER	
				A3-SIZE		121050		1 OF 28	

TABLE 2 - CABLES

Molex PN Raw cable	Cable type	Cable code	Wires no.	Cross Section	Jacket material	Jacket color	Diameter Ø [mm]	Wire colors
1210180384	R	3	3	0.75 mm²	TPR HAL. FREE	Black	6.5±0.2	BN, BU, GN/YE
1210180094	T	3	3	0.75 mm²	PUR CSA/UL 20668	Yellow	6.5±0.2	BN, BU, GN/YE
1210180309	Y	3	3	0.75 mm²	SILICONE RUBBER	Red	6.5±0.2	BN, BU, GN/YE
1210180081	F	4	3	1 mm²	PVC CNOMO	Grey	7.1+0.2/-0	BK1, BK2, GN/YE
1210180042	I	4	2	1 mm²	PVC CEI 2022 II O.R.	Grey	7.1+0.2/-0	BN, BU
1210180079	I	4	3	1 mm²	PVC CEI 2022 II O.R.	Grey	7.1+0.2/-0	BN, BU, GN/YE
1210180036	N	4	2	1 mm²	PVC H05VV-F	Black	6.5±0.2	BN, BU
1210180082	N	4	3	1 mm²	PVC H05VV-F	Black	6.9±0.2	BN, BU, GN/YE
1210180117	R	4	3	1 mm²	TPR HAL. FREE	Black	7.1±0.2	BN, BU, GN/YE
1210180085	N	5	3	1.5 mm²	PVC H05VV-F	Black	7.9±0.2	BN, BU, GN/YE
1210180313	I	6	2	0.35 mm²	PVC CEI 2011	Grey	4.8±0.2	BN, WH
1210180149	I	9	4	0.75 mm²	PVC CEI 2022 II	Grey	7.3±0.2	BN, BU, BK, GN/YE

Code	Cable types	Features	Cable type Cross section
N	PVC	Application general purpose cable which has good resistance to water, but usually poor oil resistance.	N2=0.5 mm2 N3=0.75 mm2 N4=1 mm2
I	CEI	Approved to IEC 332-2A, flame retardant and self extinguishing. Limited resistant to mineral oils.	I2=0.5 mm2 I3=0.75 mm2 I4=1 mm2
P	PUR	Offer good resistance to oil and chemicals. Can swell when constantly immersed in water.	P2=0.5 mm2 P3=0.75 mm2 P4=1 mm2
A	PVC CSA-UL	Approved to CSA-UL 2661, application general purpose cable which has good resistance to water, but usually poor oil resistance.	A2=20 AWG A3=18 AWG
B	PUR CSA-UL	Approved to CSA-UL 20668, very good resistance to oil and chemicals.	B2=20 AWG B3=18 AWG

9	8	7	6	5	4	3	2	1
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9	8	7	6	5	4	3	2	1
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Pos.	Molex PN:	Engineering No.:
441	N/A	N/A
442	1210502867	W452A3A5001RS0H
443	N/A	N/A
444	N/A	N/A
445	N/A	N/A
446	1210502871	W452N3N5001RC4B
447	N/A	N/A
448	N/A	N/A
449	1210502875	W452N3N2001RA1E
450	N/A	N/A
451	1210502877	W452N3N2001RC3A
452	N/A	N/A
453	N/A	N/A
454	1210502892	W452N3N2001RC4E
455	1210502893	W452N3N5001RC3B
456	N/A	N/A
457	N/A	N/A
458	N/A	N/A
459	N/A	N/A
460	N/A	N/A
461	N/A	N/A
462	N/A	N/A
463	N/A	N/A
464	N/A	N/A
465	N/A	N/A
466	N/A	N/A
467	N/A	N/A
468	N/A	N/A
469	N/A	N/A
470	N/A	N/A
471	N/A	N/A
472	N/A	N/A
473	1210502958	W452N3N2001RC3B
474	N/A	N/A
475	N/A	N/A
476	N/A	N/A
477	N/A	N/A
478	N/A	N/A
479	N/A	N/A
480	N/A	N/A

FORMAT: Met-legal
REVISION: E1
DATE: 2021/05/01

Pos.	Molex PN:	Engineering No.:
601	N/A	N/A
602	N/A	N/A
603	N/A	N/A
604	N/A	N/A
605	N/A	N/A
606	N/A	N/A
607	N/A	N/A
608	N/A	N/A
609	N/A	N/A
610	1210503463	E452N3N05011C41
611	N/A	N/A
612	N/A	N/A
613	N/A	N/A
614	N/A	N/A
615	N/A	N/A
616	1210503491	E452A3A30011C7H
617	N/A	N/A
618	1210503498	E452B2A3001PC4H
619	N/A	N/A
620	N/A	N/A
621	1210503507	E452B2A3001PC4L
622	N/A	N/A
623	N/A	N/A
624	N/A	N/A
625	1210503512	E452N3N10K1PC4H
626	1210503517	E452N2N1501PS0H
627	N/A	N/A
628	N/A	N/A
629	N/A	N/A
630	N/A	N/A
631	N/A	N/A
632	N/A	N/A
633	N/A	N/A
634	N/A	N/A
635	N/A	N/A
636	N/A	N/A
637	N/A	N/A
638	N/A	N/A
639	N/A	N/A
640	N/A	N/A

FORMAT: Met-lega-master-lb-prod-A3
REVISION: E1
DATE: 2021/06/01

FORMAT: Met-lega-master-lb-prod-A3
REVISION: E1
DATE: 2021/06/01

10		9		8		7		6		5		4		3		2		1																																																																																																																																																							
TABLE 3 - PART LIST																																																																																																																																																																									
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Pos.	Molex PN:	Engineering No.:
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1605	N/A	N/A
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1609	N/A	N/A
1610	N/A	N/A
1611	N/A	N/A
1612	N/A	N/A
1613	N/A	N/A
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1616	N/A	N/A
1617	N/A	N/A
1618	N/A	N/A
1619	N/A	N/A
1620	N/A	N/A
1621	N/A	N/A
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1632	N/A	N/A
1633	N/A	N/A
1634	N/A	N/A
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1640	N/A	N/A

FORMAT: Met-legal
REVISION: E1
DATE: 2021/05/01

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TABLE 3 - PART LIST									

TABLE 3 - PART LIST

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2803	N/A	N/A
2804	N/A	N/A
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2837	N/A	N/A
2838	N/A	N/A
2839	N/A	N/A
2840	N/A	N/A

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DIMENSION UNITS

mm

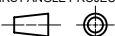
SCALE

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 OBSOLETE PART
NUMBERS AS PER PCN#515981

EC NO: 837779

DRWN: PONNAM

CHK'D: GGA

APPR: GGA

2025/10/18

2025/10/28

2025/10/28

INITIAL REVISION:

DRWN: JMARSZALEK

APPR: MDYSZEWSKA

2012/08/27

2012/08/20

DOCUMENT NUMBER

SD-121050-001

DOC TYPE

PSD

DOC PART

001

REVISION

E3

PRODUCT CUSTOMER DRAWING

E452XXXXXXXXXX

DIN FORM A EN 175301-803

MATERIAL NUMBER

SEE TABLE

CUSTOMER

GENERAL MARKET

SHEET NUMBER

16 OF 28

A3-SIZE

121050

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D											D
C											C
B											B
A											A

Pos.	Molex PN:	Engineering No.:
4121	N/A	N/A
4122	N/A	N/A
4123	N/A	N/A
4124	N/A	N/A
4125	N/A	N/A
4126	N/A	N/A
4127	N/A	N/A
4128	N/A	N/A
4129	N/A	N/A
4130	N/A	N/A
4131	N/A	N/A
4132	N/A	N/A
4133	N/A	N/A
4134	N/A	N/A
4135	N/A	N/A
4136	N/A	N/A
4137	N/A	N/A
4138	N/A	N/A
4139	N/A	N/A
4140	N/A	N/A
4141	N/A	N/A
4142	N/A	N/A
4143	N/A	N/A
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4150	N/A	N/A
4151	N/A	N/A
4152	N/A	N/A
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4154	N/A	N/A
4155	N/A	N/A
4156	2210505126	E452N2N30011C41
4157	N/A	N/A
4158	N/A	N/A
4159	N/A	N/A
4160	N/A	N/A

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	MM	INCH									
4 PLACES	±	±									
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						A3-SIZE		121050		19 OF 28	

DOCUMENT STATUS	P1	RELEASE DATE	2025/10/28	11:08:26
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				3
				2
				1

FORMAT: Met-lega-master-ib-prod-A3
REVISION: E1
DATE: 2021/05/01

Pos.	Molex PN:	Engineering No.:
4121	N/A	N/A
4122	N/A	N/A
4123	N/A	N/A
4124	N/A	N/A
4125	N/A	N/A
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