

PN KEY ENGINEERING PN

E

4

5

2

X

X

X

X

X

X

X

X

X

X

X

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

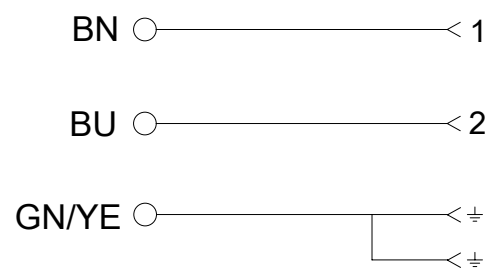
1. Please see excel sheet 1210502000_PDP for currently configured part numbers.
2. Drawing is a replacement for: SD-121050-001

DOCUMENT STATUS	P1	RELEASE DATE	2018/08/31	12:24:53
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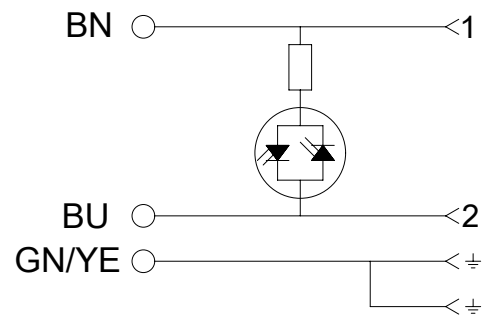
SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
⌀ = 0 ⌀ = 0 ⌀ = 0 ⌀ = 0 ⬮ = 0 ⬮ = 0 ⊠ = 0 ■ = 0 ▽ = 0 mm 1:1 GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± ° 4 PLACES ± 3 PLACES ± 2 PLACES ± 1 PLACE ± 0 PLACES ± DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	CURRENT REV DESC:		molex						STANDARD E452 DIN FORM A EN 175301-803			
	EC NO: 603741											
	DRWN: APAWLAK01 2018/07/13		PRODUCT CUSTOMER DRAWING									
	CHK'D: RSILLER 2018/08/31											
	APPR: RSILLER 2018/08/31											
	INITIAL REVISION:		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION			
	DRWN: APAWLAK01 2018/07/13											
	APPR: RSILLER 2018/08/31											
	THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
			A3-SIZE		121050		SEE 1210502000_PDP		GENERAL MARKET		2 OF 3	

WIRING DIAGRAMS

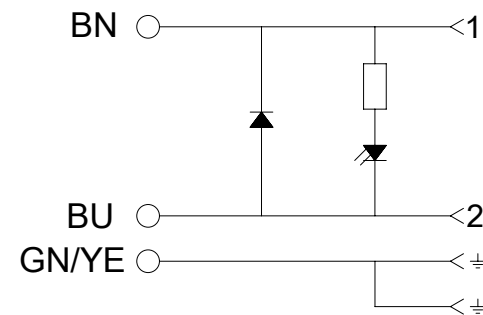
ELECTRICAL DIAGRAM 00



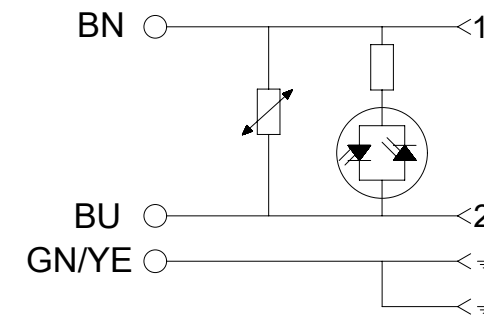
ELECTRICAL DIAGRAM A1



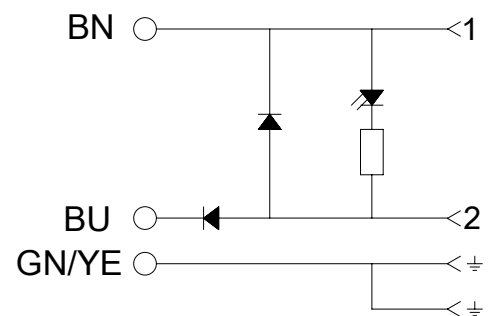
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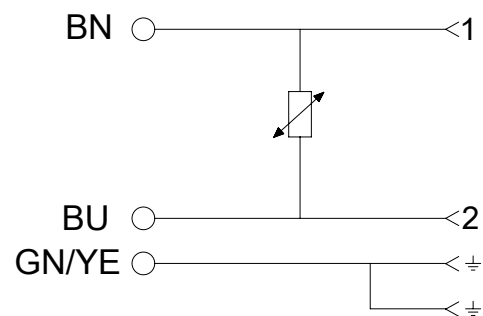
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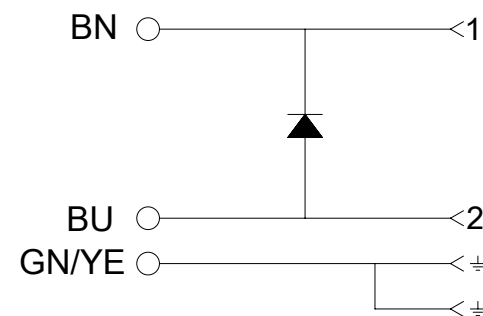
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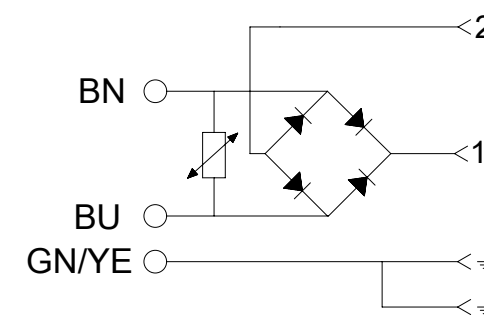
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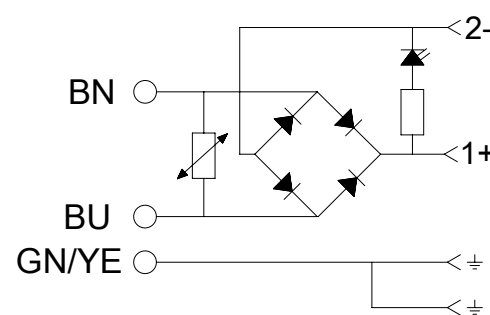
ELECTRICAL DIAGRAM E0



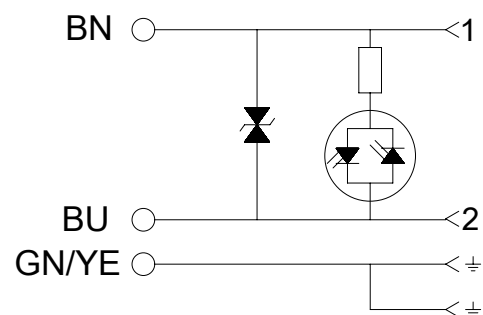
ELECTRICAL DIAGRAM R0



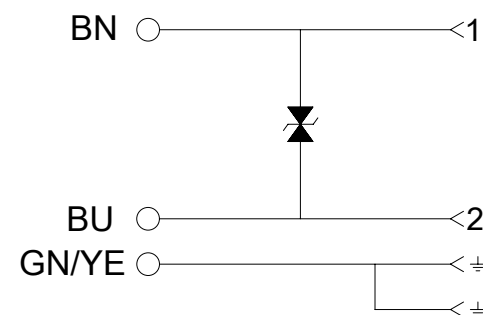
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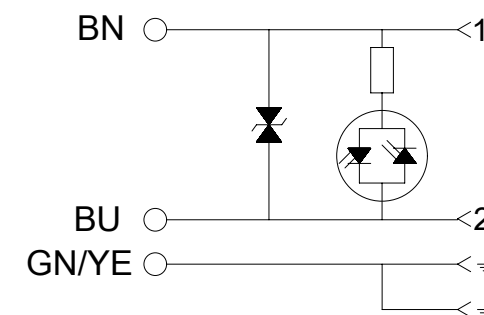
ELECTRICAL DIAGRAM S0



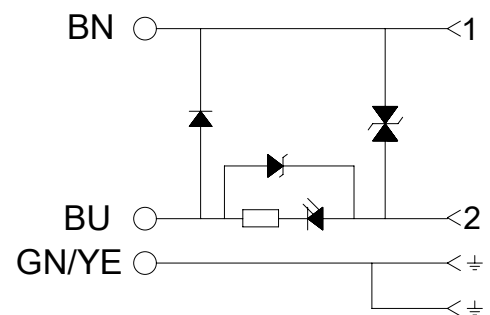
ELECTRICAL DIAGRAM S1



ELECTRICAL DIAGRAM S3

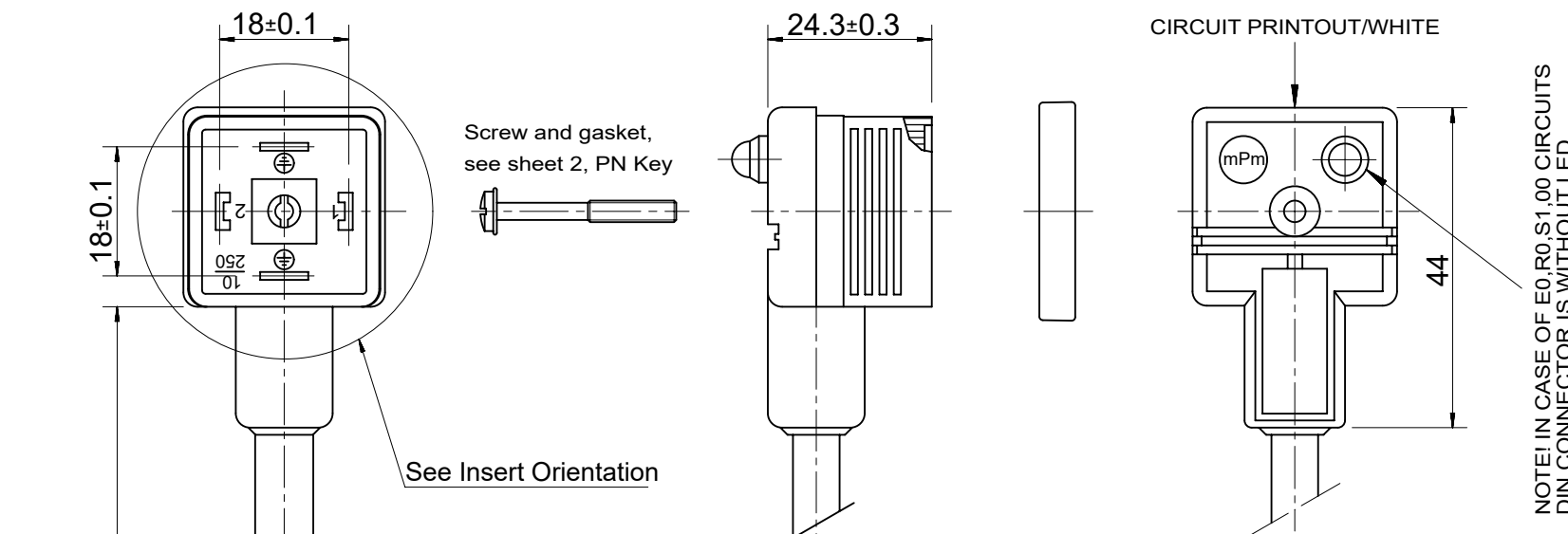


ELECTRICAL DIAGRAM NS



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:				molex					
A = 0		mm		1:1		EC NO: 603741 DRWN: APAWLAK01 2018/07/13 CHK'D: RSILLER 2018/08/31 APPR: RSILLER 2018/08/31									
E = 0		GENERAL TOLERANCES (UNLESS SPECIFIED)													
E = 0		ANGULAR TOL ± °		EC NO: 603741 DRWN: APAWLAK01 2018/07/13 CHK'D: RSILLER 2018/08/31 APPR: RSILLER 2018/08/31				STANDARD E452 DIN FORM A EN 175301-803							
S = 0		4 PLACES ±						PRODUCT CUSTOMER DRAWING							
▼ = 0		3 PLACES ±													
C = 0		2 PLACES ±													
X = 0		1 PLACE ±		INITIAL REVISION: DRWN: APAWLAK01 2018/07/13 APPR: RSILLER 2018/08/31				DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
■ = 0		0 PLACES ±						1210502000		PSD		000		A	
▽ = 0		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
						A3-SIZE		121050		SEE 1210502000_PDP		GENERAL MARKET		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

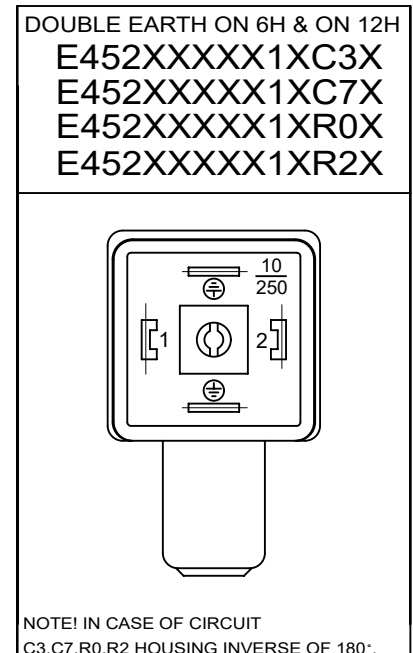


Table of length tolerances [mm]		
Over	Up to and including	Tolerance (+)
0	1000	±20
1000	3000	±30
3000	5000	±40
5000	10000	±50
10000	15000	±100
15000	20000	±150
20000		±L/100

WIRING CONFIGURATION

ELECTRICAL DIAGRAM R0

ELECTRICAL DIAGRAM C4

ELECTRICAL DIAGRAM S0

ELECTRICAL DIAGRAM S3

ELECTRICAL DIAGRAM A1

ELECTRICAL DIAGRAM C3

ELECTRICAL DIAGRAM E0

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.

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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: REVISION CREATED FOR REMOVING PRE-RELEASE STAMP

EC NO: 714567

DRWN: SUGEEB

CHK'D: GGA

APPR: GGA

INITIAL REVISION:

DRWN: JMARSZALEK

APPR: MDYSZEWSKA

FIRST ANGLE PROJECTION

DRAWING

SERIES

2022/07/18

2022/07/19

2022/07/19

2012/08/27

2012/08/20

A3-SIZE

121050

molex

E452XXXXXXXXXX

DIN FORM A EN 175301-803

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

SD-121050-001

MATERIAL NUMBER

SEE TABLE

DOC TYPE

PSD

CUSTOMER

GENERAL MARKET

DOC PART

001

SHEET NUMBER

1 OF 41

REVISION

E1

DOCUMENT STATUS

P1

RELEASE DATE

2022/07/19

09:04:35

10

9

8

7

6

5

4

3

2

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F

E

D

C

B

A



FORMAT: Met-lega-master 6-prod-A3 REVISION: E DATE: 2020/1/14											9	8	7	6	5	4	3	2	1
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TABLE 2 - CABLES

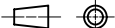
Molex PN Raw cable	Cable type	Cable code	Wires no.	Cross Section	Jacket material	Jacket color	Diameter Ø [mm]	Wire colors
1210180080	I	0	3	1 mm²	PVC CEI 2022 II O.R.	Grey	6.4±0.2	BN, BU, GN/YE
1210180467	A	2	2	20 AWG	PVC CSA/UL 2661	Black	5.4±0.2	BN, BU
1210180128	A	2	3	20 AWG	PVC CSA/UL 2661	Black	5.6±0.2	BN, BU, GN/YE
1210180394	A	2	4	20 AWG	PVC CSA/UL 2661	Black	6.2±0.25	BN, BU, BK, GN/YE
1210180297	B	2	2	20 AWG	PUR CSA/UL 20668	Black	5.6±0.2	BN, BU
1210180126	B	2	3	20 AWG	PUR CSA/UL 20668	Black	5.6±0.2	BN, BU, GN/YE
1210180387	B	2	4	20 AWG	PUR CSA/UL 20668	Black	6.3±0.2	BN, BU, BK, GN/YE
1210180122	D	2	3	0.5 mm²	PVC CEI 20-20	Grey	5.5±0.2	BN, BU, GN/YE
1210180047	I	2	2	0.5 mm²	PVC CEI 2022 II O.R.	Grey	5.5+0.3/-0	BN, BU
1210180284	I	2	3	0.5 mm²	PVC CEI 2022 II O.R.	Grey	5.5+0.3/-0	BN, BU, GN/YE
1210180146	I	2	4	0.5 mm²	PVC CEI 2022 II O.R.	Grey	6.5±0.2	BN, BU, BK, GN/YE
1210180177	I	2	5	0.5 mm²	PVC CEI 2022 II O.R.	Grey	7.0 +0.3/-0	BN, BU, BK, WH, GN/YE
1210180022	N	2	2	0.5 mm²	PVC H03VV-F	Black	5.2±0.2	BN, BU
1202092753	N	2	3	0.5 mm²	PVC H03VV-F	Black	5.5±0.2	BN, BU, GN/YE
1210180153	N	2	4	0.5 mm²	PVC H03VV-F	Black	5.9±0.3	BN, BU, BK, GN/YE
1210180046	P	2	2	0.5 mm²	PUR - BLEND	Black	5.5±0.2	BN, BU
1202092439	P	2	3	0.5 mm²	PUR - BLEND	Black	5.5 +0.3/-0	BN, BU, GN/YE
1210180302	P	2	4	0.5 mm²	PUR - BLEND	Black	6.5±0.2	BN, BU, BK, GN/YE
1202092215	P	2	5	0.5 mm²	PUR - BLEND	Black	7+0.3/-0.1	BN, BU, BK, WH, GN/YE
1210180409	A	3	2	18 AWG	PVC CSA/UL 2661	Black	6.2±0.25	BN, BU
1210180129	A	3	3	18 AWG	PVC CSA/UL 2661	Black	6.5±0.25	BN, BU, GN/YE
1210180159	A	3	4	18 AWG	PVC CSA/UL 2661	Black	7.0+0.3/-0	BN, BU, BK, GN/YE
1210180464	A	3	5	18 AWG	PVC CSA/UL 2661	Black	7.8±0.25	BN, BU, BK, WH, GN/YE
1210180351	B	3	2	18 AWG	PUR CSA/UL 20668	Black	6.2±0.2	BN, BU
1210180127	B	3	3	18 AWG	PUR CSA/UL 20668	Black	6.5±0.2	BN, BU, GN/YE
1210180160	B	3	4	18 AWG	PUR CSA/UL 20668	Black	7±0.2	BN, BU, BK, GN/YE
1210180463	B	3	5	18 AWG	PUR CSA/UL 20668	Black	7.8±0.25	BN, BU, BK, WH, GN/YE
1210180073	D	3	3	0.75 mm²	PVC CEI 20-20	Grey	6.5±0.2	BN, BU, GN/YE
1210180145	D	3	4	0.75 mm²	PVC CEI 20-20	Grey	7.1±0.2	BN, BU, BK, GN/YE
1202098206	I	3	2	0.75 mm²	PVC CEI 2022 II O.R.	Grey	5.5±0.2	BK1, BK2
1210180120	I	3	3	0.75 mm²	PVC CEI 2022 II O.R.	Grey	6.0±0.2	BK1, BK2, BK3
1210180143	I	3	4	0.75 mm²	PVC CEI 2022 II O.R.	Grey	7.0±0.2	BN, BU, BK, GN/YE
1210180032	N	3	2	0.75 mm²	PVC H05VV-F	Black	6.2±0.2	BN, BU
1210180069	N	3	3	0.75 mm²	PVC H05VV-F	Black	6.5±0.2	BN, BU, GN/YE
1210180144	N	3	4	0.75 mm²	PVC H05VV-F	Black	7.1±0.2	BN, BU, BK, GN/YE
1210180174	N	3	5	0.75 mm²	PVC H05VV-F	Black	8.0+0.2/-0	BN, BU, BK, GY, GN/YE
1202094190	P	3	2	0.75 mm²	PUR - BLEND	Black	6.5±0.2	BN, BU
1210180071	P	3	3	0.75 mm²	PUR - BLEND	Black	6.5±0.2	BN, BU, GN/YE
1210180152	P	3	4	0.75 mm²	PUR - BLEND	Black	7.0±0.2	BN, BU, BK, GN/YE

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 mm ²	TPR HAL. FREE	Black	6.5±0.2	BN, BU, GN/YE
1210180094	T	3	3	0.75 mm ²	PUR CSA/UL 20668	Yellow	6.5±0.2	BN, BU, GN/YE
1210180309	Y	3	3	0.75 mm ²	SILICONE RUBBER	Red	6.5±0.2	BN, BU, GN/YE
1210180081	F	4	3	1 mm ²	PVC CNOMO	Grey	7.1+0.2/-0	BK1, BK2, GN/YE
1210180042	I	4	2	1 mm ²	PVC CEI 2022 II O.R.	Grey	7.1+0.2/-0	BN, BU
1210180079	I	4	3	1 mm ²	PVC CEI 2022 II O.R.	Grey	7.1+0.2/-0	BN, BU, GN/YE
1210180036	N	4	2	1 mm ²	PVC H05VV-F	Black	6.5±0.2	BN, BU
1210180082	N	4	3	1 mm ²	PVC H05VV-F	Black	6.9±0.2	BN, BU, GN/YE
1210180117	R	4	3	1 mm ²	TPR HAL. FREE	Black	7.1±0.2	BN, BU, GN/YE
1210180085	N	5	3	1.5 mm ²	PVC H05VV-F	Black	7.9±0.2	BN, BU, GN/YE
1210180313	I	6	2	0.35 mm ²	PVC CEI 2011	Grey	4.8±0.2	BN, WH
1210180149	I	9	4	0.75 mm ²	PVC CEI 2022 II	Grey	7.3±0.2	BN, BU, BK, GN/YE

TABLE 1 - CABLES TYPE

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

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DIMENSION UNITS		SCALE		CURRENT REV DESC: REVISION CREATED FOR REMOVING PRE-RELEASE STAMP				molex							
mm		NTS													
GENERAL TOLERANCES (UNLESS SPECIFIED)				E452XXXXXXXXXXXX DIN FORM A EN 175301-803											
		MM		INCH		PRODUCT CUSTOMER DRAWING									
4 PLACES		±		±											
3 PLACES		±		±		DOCUMENT NUMBER									
2 PLACES		±		±											
1 PLACE		±		±		DOC TYPE									
0 PLACES		±		±											
ANGULAR TOL		±		°		DOC PART									
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				FIRST ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
						A3-SIZE		121050		SEE TABLE		GENERAL MARKET		3 OF 41	

Pos.	Molex PN:	Engineering No.:
1	1210400514	E452N3N10012000
2	1210400515	E452N3N30012000
3	1210400516	E452N3N50012000
4	1210400517	E452P3N10012000
5	1210400519	E452P3N30012000
6	1210400755	E452N3N2001P000
7	1210400810	E452N3N15K12000
8	1210400861	E452N3N10011000
9	1210400896	E452A2A80012000
10	1210400897	E452A2A90012000
11	1210400898	E452A2A70012000
12	1210400899	E452A2A40012000
13	1210400900	E452A2A50012000
14	1210400901	E452N3N13K12000
15	1210400909	E452A2A60012000
16	1210400957	E452N3N20012000
17	1210401237	W452P3N30012000
18	1210401242	W452N3N50012000
19	1210401265	W452N3N30012000
20	1210401291	W452N3N10012000
21	1210500294	E452A2A20011C4H
22	1210500295	E452A3A10011C42
23	1210500297	E452A3A30011C44
24	1210500298	E452A3A30011C4H
25	1210500299	E452A3A30012000
26	1210500301	E452A3A30012C4H
27	1210500302	E452A3A50012C4L
28	1210500311	E452B3A30012C4H
29	1210500312	E452B3A30012C4L
30	1210500313	E452B3A50012C4H
31	1210500314	E452B8N10012000
32	1210500339	E452F4N10K11S3B
33	1210500344	E452F4N20011S3B
34	1210500352	E452F4N50011S3B
35	1210500362	E452I0N20011C42
36	1210500375	E452I2N10011C4H
37	1210500376	E452I2N10011C72
38	1210500384	E452I2N20011C3H
39	1210500385	E452I2N20011C4H
40	1210500388	E452I2N30011C32

Pos.	Molex PN:	Engineering No.:
41	1210500389	E452I2N30011C3H
42	1210500390	E452I2N30011C42
43	1210500392	E452I2N30011C4H
44	1210500393	E452I2N30011C4L
45	1210500394	E452I2N30011C4M
46	1210500398	E452I2N50011C42
47	1210500399	E452I2N50011C4H
48	1210500407	E452I4G30011C4B
49	1210500408	E452I4G30011C4H
50	1210500414	E452I4G40011C4H
51	1210500417	E452I4G50011C4H
52	1210500424	E452I4N10011C42
53	1210500428	E452I4N10011C4H
54	1210500434	E452I4N10K11C4H
55	1210500435	E452I4N10K11C4L
56	1210500443	E452I4N15K11C4H
57	1210500448	E452I4N20011C3H
58	1210500452	E452I4N20011C4H
59	1210500455	E452I4N20011C7H
60	1210500465	E452I4N30011A1H
61	1210500467	E452I4N30011C3H
62	1210500468	E452I4N30011C42
63	1210500469	E452I4N30011C44
64	1210500473	E452I4N30011C4H
65	1210500474	E452I4N30011C4L
66	1210500475	E452I4N30011C4M
67	1210500478	E452I4N30011R2H
68	1210500479	E452I4N30011R2L
69	1210500480	E452I4N30011R2M
70	1210500481	E452I4N30011S0H
71	1210500486	E452I4N35011C45
72	1210500489	E452I4N40011C42
73	1210500492	E452I4N40011C4H
74	1210500498	E452I4N50011C3H
75	1210500499	E452I4N50011C42
76	1210500504	E452I4N50011C4H
77	1210500505	E452I4N50011C4L
78	1210500506	E452I4N50011C4M
79	1210500510	E452I4N50011R2L
80	1210500511	E452I4N50011S0H

Pos.	Molex PN:	Engineering No.:
81	1210500514	E452I4N55011C72
82	1210500515	E452I4N60011C42
83	1210500520	E452I4N70011R2H
84	1210500522	E452I4N80011C4H
85	1210500524	E452I8N50011C4H
86	1210500548	E452N3N10011A11
87	1210500549	E452N3N10011C42
88	1210500551	E452N3N10011C45
89	1210500552	E452N3N10011C4B
90	1210500554	E452N3N10011C4H
91	1210500556	E452N3N10011R2H
92	1210500558	E452N3N10012C4H
93	1210500559	E452N3N10012C4L
94	1210500560	E452N3N10022C4L
95	1210500562	E452N3N10K11C42
96	1210500569	E452N3N10K11S02
97	1210500572	E452N3N10K11S0H
98	1210500575	E452N3N10K12C4H
99	1210500576	E452N3N10K12C4L
100	1210500582	E452N3N15011A11
101	1210500583	E452N3N15011A12
102	1210500584	E452N3N15011A15
103	1210500585	E452N3N15011C32
104	1210500591	E452N3N15012C4H
105	1210500594	E452N3N15022C4L
106	1210500599	E452N3N15K12C4H
107	1210500601	E452N3N20011A11
108	1210500602	E452N3N20011A12
109	1210500603	E452N3N20011A14
110	1210500606	E452N3N20011A1H
111	1210500612	E452N3N20011C42
112	1210500620	E452N3N20011C4H
113	1210500621	E452N3N20011C4L
114	1210500624	E452N3N20011R05
115	1210500627	E452N3N20011R2M
116	1210500636	E452N3N25011C42
117	1210500638	E452N3N25011C4H
118	1210500644	E452N3N30011A1H
119	1210500648	E452N3N30011C32
120	1210500649	E452N3N30011C41

Pos.	Molex PN:	Engineering No.:
121	1210500650	E452N3N30011C42
122	1210500651	E452N3N30011C44
123	1210500652	E452N3N30011C45
124	1210500657	E452N3N30011C4H
125	1210500658	E452N3N30011C4L
126	1210500659	E452N3N30011C4M
127	1210500662	E452N3N30011R2H
128	1210500666	E452N3N30011S0D
129	1210500673	E452N3N30012C4H
130	1210500674	E452N3N30012C4L
131	1210500685	E452N3N35011A11
132	1210500689	E452N3N40011A12
133	1210500690	E452N3N40011C42
134	1210500691	E452N3N40011C44
135	1210500692	E452N3N40011C45
136	1210500693	E452N3N40011C4H
137	1210500696	E452N3N50011A1B
138	1210500702	E452N3N50011C42
139	1210500703	E452N3N50011C44
140	1210500705	E452N3N50011C4B
141	1210500707	E452N3N50011C4D
142	1210500708	E452N3N50011C4E
143	1210500709	E452N3N50011C4H
144	1210500711	E452N3N50011S02
145	1210500712	E452N3N50011S0D
146	1210500713	E452N3N50011S0H
147	1210500714	E452N3N50012C44
148	1210500715	E452N3N50012C4H
149	1210500716	E452N3N50012C4L
150	1210500722	E452N3N65021C42
151	1210500730	E452P2N04011C4H
152	1210500735	E452P2N07511C32
153	1210500737	E452P2N10011C4H
154	1210500739	E452P2N10K11C4H
155	1210500741	E452P2N10K11S0H
156	1210500742	E452P2N11011C4H
157	1210500747	E452P2N16011C4H
158	1210500748	E452P2N20011C4H
159	1210500755	E452P2N30011C4L
160	1210500759	E452P2N30011S0H

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4	3	2	1
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Pos.	Molex PN:	Engineering No.:
161	1210500764	E452P2N50011C42
162	1210500766	E452P2N50011C4B
163	1210500769	E452P2N50011C4H
164	1210500770	E452P2N50011C4L
165	1210500776	E452P2N50011S0H
166	1210500787	E452P3N05011S0B
167	1210500791	E452P3N10012C4H
168	1210500792	E452P3N10012C4L
169	1210500795	E452P3N10K11S0H
170	1210500801	E452P3N15011S0H
171	1210500803	E452P3N20011C42
172	1210500807	E452P3N30011C3H
173	1210500810	E452P3N30011C4H
174	1210500812	E452P3N30011S0B
175	1210500814	E452P3N30011S0H
176	1210500815	E452P3N30012C4H
177	1210500816	E452P3N30012C4L
178	1210500817	E452P3N50011C3H
179	1210500819	E452P3N50011C4H
180	1210500821	E452P3N50011S02
181	1210500822	E452P3N50011S0B
182	1210500823	E452P3N50011S0H
183	1210500824	E452P3N50012000
184	1210500826	E452P3N50012C4H
185	1210500827	E452P3N50012C4L
186	1210501560	E452A2A10012000
187	1210501561	E452N3N50011C4M
188	1210501563	E452A2A30012000
189	1210501569	E452I2N15011C7H
190	1210501577	E452N3N50011C4L
191	1210501578	E452B3A50012C4L
192	1210501581	E452P3N07011C4H
193	1210501584	E452I4G60011C4H
194	1210501587	E452P3N50011R2E
195	1210501591	E452A3A50012C4H
196	1210501607	E452N3N10013C4H
197	1210501608	E452N3N50013C4H
198	1210501609	E452N2N15011E05
199	1210501610	E452P2N30011C4H
200	1210501611	E452A3A10K12C4H

Pos.	Molex PN:	Engineering No.:
201	1210501612	E452I4G20011C4H
202	1210501624	E452A3A30012C4L
203	1210501632	E452P2N20011C42
204	1210501647	E452P3N20011S02
205	1210501656	E452A2A50012C4H
206	1210501657	E452P3N20011C44
207	1210501664	E452P3N10011C4H
208	1210501674	E452A3A20011C44
209	1210501690	E452N2N50011C4H
210	1210501698	E452I4N20011C3B
211	1210501720	E452I4N80011C72
212	1210501726	E452A3A20011C45
213	1210501733	E452P3N50011A1H
214	1210501735	E452N2N30011A12
215	1210501737	E452N2N10011R2H
216	1210501749	E452A2A15011C4H
217	1210501764	E452N3N06011A12
218	1210501766	E452N3N10011A12
219	1210501780	E452A3A30011R2L
220	1210501781	E452B3A30011C4H
221	1210501795	E452I2N10K11C4H
222	1210501799	E452N2N30011A1M
223	1210501800	E452N2N30011A1D
224	1210501801	E452A3A50012000
225	1210501813	E452I4N60011C4H
226	1210501840	E452A2A30011C32
227	1210501844	E452I4N15011C4H
228	1210501867	E452N3N10011C4M
229	1210501874	E452A3A20011A1M
230	1210501878	E452N3N1001PC4H
231	1210501879	E452A3A30011C4L
232	1210501882	E452B3A30022000
233	1210501887	E452A3A50011C7H
234	1210501888	E452A3A20011C7H
235	1210501889	E452P3N3001PS0H
236	1210501890	E452P3N5001PS0H
237	1210501891	E452P3N5001PC4M
238	1210501892	E452B3A10012000
239	1210501916	E452I2N50011C44
240	1210501921	E452N2N20091C3H

Pos.	Molex PN:	Engineering No.:
241	1210501932	E452I4G40011S0H
242	1210501941	E452N3N3001PS0H
243	1210501942	E452N3N1001PS0H
244	1210501960	E452I4N70011R2L
245	1210501962	E452P3N3001PC4H
246	1210501966	E452A3A50012C3H
247	1210501968	E452N3N2001PC42
248	1210501973	E452I4N50011C3B
249	1210501998	E452P3N1001PC4H
250	1210501999	E452P3N3001PC45
251	1210502000	E452I4N50011S02
252	1210502004	E452A3A50011S0H
253	1210502007	E452A2A15011S0H
254	1210502008	E452A2A50011S0H
255	1210502018	E452N3N25011S0H
256	1210502022	E452A3A10K12000
257	1210502024	E452A3A50011C44
258	1210502034	E452N2N30011A14
259	1210502035	E452A3A10012C4L
260	1210502038	E452N3N5001PC4H
261	1210502039	E452N3N3001PC4H
262	1210502043	E452A2A20011S0H
263	1210502044	E452A2A30011S0H
264	1210502050	E452N3N10K11C4L
265	1210502052	E452P3N2001PC3H
266	1210502068	E452T3A30011C4H
267	1210502072	E452P3N1501PS0H
268	1210502077	E452I2N40011C42
269	1210502080	E452I4N60011C32
270	1210502083	E452N2N30011A1H
271	1210502084	E452N2N30011C3H
272	1210502091	E452T3A20011C4H
273	1210502100	E452N3N20011C41
274	1210502115	E452T3A10011C4H
275	1210502128	E452I4N35011A1B
276	1210502134	E452N3N10011C3G
277	1210502137	E452N3N5001RA1H
278	1210502142	E452N3N3001RC4H
279	1210502171	E452A2A10011S0H
280	1210502177	E452N2N30011C42

Pos.	Molex PN:	Engineering No.:
281	1210502178	E452N2N30011C44
282	1210502180	E452I4N10K11C3H
283	1210502190	E452I2N10014A1G
284	1210502194	E452F4N5001RC4E
285	1210502213	E452N2N30011R2M
286	1210502214	E452N2N15041C4H
287	1210502219	E452I4N50011R2M
288	1210502223	E452P3N5001PC4H
289	1210502232	E452N2N30041C4H
290	1210502233	E452N3N5001PS0H
291	1210502244	E452N3N20011R2H
292	1210502247	E452N2N5001RA1H
293	1210502248	E452N2N10K1RA1H
294	1210502256	E452T3A06011C4H
295	1210502258	E452A3A30012C4M
296	1210502259	E452A3A20011C42
297	1210502262	E452N3N40011R2M
298	1210502278	E452N3N1001TR2H
299	1210502281	E452N2N30011C4M
300	1210502283	E452T3A60011C4H
301	1210502289	E452I4N5001PC4H
302	1210502309	E452N3N4001PC4H
303	1210502311	E452A3A10K11S0H
304	1210502314	E452N3N2001PR2M
305	1210502317	E452N2N10011A12
306	1210502318	E452N3N2001PC3H
307	1210502328	E452B2A30011A15
308	1210502334	E452A3A30011C42
309	1210502335	E452P3N2001PC4H
310	1210502341	E452N3N10K11C4H
311	1210502346	E452N2N10K12C4H
312	1210502352	E452N3N50012S02
313	1210502353	E452A3A30022000
314	1210502357	E452B3A50011C4H
315	1210502359	E452I2N50011C3H
316	1210502363	E452A2A10K11S0H
317	1210502375	E452N2N10011R24
318	1210502389	E452N3N55021A12
319	1210502396	E452P3N10K11C4H
320	1210502404	E452P2N20011S0B

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4	3	2	1
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TABLE 3 - PART LIST

Pos.	Molex PN:	Engineering No.:
1001	2210501382	E452A2A30011A1B
1002	2210501383	E452A2A30011A1C
1003	2210501384	E452A2A30011A1D
1004	2210501385	E452A2A30011A1E
1005	2210501386	E452A2A30011A1G
1006	2210501387	E452A2A30011A1H
1007	2210501388	E452A2A30011A1K
1008	2210501389	E452A2A30011A1L
1009	2210501390	E452A2A30011A1M
1010	2210501391	E452A2A30011C31
1011	2210501392	E452A2A30011C33
1012	2210501393	E452A2A30011C34
1013	2210501394	E452A2A30011C35
1014	2210501395	E452A2A30011C3A
1015	2210501396	E452A2A30011C3B
1016	2210501397	E452A2A30011C3C
1017	2210501398	E452A2A30011C3D
1018	2210501399	E452A2A30011C3E
1019	2210501400	E452A2A30011C3G
1020	2210501401	E452A2A30011C3H
1021	2210501402	E452A2A30011C3K
1022	2210501403	E452A2A30011C3L
1023	2210501404	E452A2A30011C3M
1024	2210501405	E452A2A30011C41
1025	2210501406	E452A2A30011C42
1026	2210501407	E452A2A30011C43
1027	2210501408	E452A2A30011C44
1028	2210501409	E452A2A30011C45
1029	2210501410	E452A2A30011C4A
1030	2210501411	E452A2A30011C4B
1031	2210501412	E452A2A30011C4C
1032	2210501413	E452A2A30011C4D
1033	2210501414	E452A2A30011C4E
1034	2210501415	E452A2A30011C4G
1035	2210501416	E452A2A30011C4K
1036	2210501417	E452A2A30011C4L
1037	2210501418	E452A2A30011C4M
1038	2210501423	E452A2A30011E05
1039	N/A	N/A
1040	N/A	N/A

Pos.	Molex PN:	Engineering No.:
1041	N/A	N/A
1042	N/A	N/A
1043	2210501438	E452A2A30011R05
1044	N/A	N/A
1045	N/A	N/A
1046	N/A	N/A
1047	N/A	N/A
1048	N/A	N/A
1049	N/A	N/A
1050	N/A	N/A
1051	N/A	N/A
1052	N/A	N/A
1053	N/A	N/A
1054	2210501449	E452A2A30011R21
1055	2210501450	E452A2A30011R22
1056	2210501451	E452A2A30011R23
1057	2210501452	E452A2A30011R24
1058	2210501453	E452A2A30011R25
1059	2210501454	E452A2A30011R2A
1060	2210501455	E452A2A30011R2B
1061	2210501456	E452A2A30011R2C
1062	2210501457	E452A2A30011R2D
1063	2210501458	E452A2A30011R2E
1064	2210501459	E452A2A30011R2G
1065	2210501460	E452A2A30011R2H
1066	2210501461	E452A2A30011R2K
1067	2210501462	E452A2A30011R2L
1068	2210501463	E452A2A30011R2M
1069	2210501464	E452A2A30011S01
1070	2210501465	E452A2A30011S02
1071	2210501466	E452A2A30011S03
1072	2210501467	E452A2A30011S04
1073	2210501468	E452A2A30011S05
1074	2210501469	E452A2A30011S0A
1075	2210501470	E452A2A30011S0B
1076	2210501471	E452A2A30011S0C
1077	2210501472	E452A2A30011S0D
1078	2210501473	E452A2A30011S0E
1079	2210501474	E452A2A30011S0G
1080	2210501475	E452A2A30011S0K

Pos.	Molex PN:	Engineering No.:
1081	2210501476	E452A2A30011S0L
1082	2210501477	E452A2A30011S0M
1083	2210501478	E452A2A50011000
1084	2210501479	E452A2A50011A11
1085	2210501480	E452A2A50011A12
1086	2210501481	E452A2A50011A13
1087	2210501482	E452A2A50011A14
1088	2210501483	E452A2A50011A15
1089	2210501484	E452A2A50011A1A
1090	2210501485	E452A2A50011A1B
1091	2210501486	E452A2A50011A1C
1092	2210501487	E452A2A50011A1D
1093	2210501488	E452A2A50011A1E
1094	2210501489	E452A2A50011A1G
1095	2210501490	E452A2A50011A1H
1096	2210501491	E452A2A50011A1K
1097	2210501492	E452A2A50011A1L
1098	2210501493	E452A2A50011A1M
1099	2210501494	E452A2A50011C31
1100	2210501495	E452A2A50011C32
1101	2210501496	E452A2A50011C33
1102	2210501497	E452A2A50011C34
1103	2210501498	E452A2A50011C35
1104	2210501499	E452A2A50011C3A
1105	2210501500	E452A2A50011C3B
1106	2210501501	E452A2A50011C3C
1107	2210501502	E452A2A50011C3D
1108	2210501503	E452A2A50011C3E
1109	2210501504	E452A2A50011C3G
1110	2210501505	E452A2A50011C3H
1111	2210501506	E452A2A50011C3K
1112	2210501507	E452A2A50011C3L
1113	2210501508	E452A2A50011C3M
1114	2210501509	E452A2A50011C41
1115	2210501510	E452A2A50011C42
1116	2210501511	E452A2A50011C43
1117	2210501512	E452A2A50011C44
1118	2210501513	E452A2A50011C45
1119	2210501514	E452A2A50011C4A
1120	2210501515	E452A2A50011C4B

Pos.	Molex PN:	Engineering No.:
1121	2210501516	E452A2A50011C4C
1122	2210501517	E452A2A50011C4D
1123	2210501518	E452A2A50011C4E
1124	2210501519	E452A2A50011C4G
1125	2210501520	E452A2A50011C4H
1126	2210501521	E452A2A50011C4K
1127	2210501522	E452A2A50011C4L
1128	2210501523	E452A2A50011C4M
1129	2210501528	E452A2A50011E05
1130	N/A	N/A
1131	N/A	N/A
1132	N/A	N/A
1133	N/A	N/A
1134	2210501543	E452A2A50011R05
1135	N/A	N/A
1136	N/A	N/A
1137	N/A	N/A
1138	N/A	N/A
1139	N/A	N/A
1140	N/A	N/A
1141	N/A	N/A
1142	N/A	N/A
1143	N/A	N/A
1144	N/A	N/A
1145	2210501554	E452A2A50011R21
1146	2210501555	E452A2A50011R22
1147	2210501556	E452A2A50011R23
1148	2210501557	E452A2A50011R24
1149	2210501558	E452A2A50011R25
1150	2210501559	E452A2A50011R2A
1151	2210501560	E452A2A50011R2B
1152	2210501561	E452A2A50011R2C
1153	2210501562	E452A2A50011R2D
1154	2210501563	E452A2A50011R2E
1155	2210501564	E452A2A50011R2G
1156	2210501565	E452A2A50011R2H
1157	2210501566	E452A2A50011R2K
1158	2210501567	E452A2A50011R2L
1159	2210501568	E452A2A50011R2M
1160	2210501569	E452A2A50011S01

DOCUMENT STATUS	P1	RELEASE DATE	2022/07/19	09:04:35
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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: REVISION CREATED FOR REMOVING PRE-RELEASE STAMP				molex									
mm		NTS															
GENERAL TOLERANCES (UNLESS SPECIFIED)								E452XXXXXXXXXX DIN FORM A EN 175301-803									
	MM	INCH															
4 PLACES	±		±	EC NO: 714567 DRWN: SUGEEB CHK'D: GGA APPR: GGA				2022/07/18 2022/07/19 2022/07/19									
3 PLACES	±		±														
2 PLACES	±		±														
1 PLACE	±		±	INITIAL REVISION: DRWN: JMARSZALEK APPR: MDYSZEWSKA				2022/08/27 2012/08/20									
0 PLACES	±		±														
ANGULAR TOL ± °																	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				FIRST ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER			
						A3-SIZE		121050		SEE TABLE		GENERAL MARKET		10 OF 41			
										DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
										SD-121050-001		PSD		001		E1	

Pos.	Molex PN:	Engineering No.:
5441	2210506905	E452P2N20011R2C
5442	2210506906	E452P2N20011R2D
5443	2210506907	E452P2N20011R2E
5444	2210506908	E452P2N20011R2G
5445	2210506909	E452P2N20011R2H
5446	2210506910	E452P2N20011R2K
5447	2210506911	E452P2N20011R2L
5448	2210506912	E452P2N20011R2M
5449	2210506913	E452P2N20011S01
5450	2210506914	E452P2N20011S02
5451	2210506915	E452P2N20011S03
5452	2210506916	E452P2N20011S04
5453	2210506917	E452P2N20011S05
5454	2210506918	E452P2N20011S0A
5455	2210506919	E452P2N20011S0C
5456	2210506920	E452P2N20011S0D
5457	2210506921	E452P2N20011S0E
5458	2210506922	E452P2N20011S0G
5459	2210506923	E452P2N20011S0H
5460	2210506924	E452P2N20011S0K
5461	2210506925	E452P2N20011S0L
5462	2210506926	E452P2N20011S0M
5463	2210506927	E452P2N30011000
5464	2210506928	E452P2N30011A11
5465	2210506929	E452P2N30011A12
5466	2210506930	E452P2N30011A13
5467	2210506931	E452P2N30011A14
5468	2210506932	E452P2N30011A15
5469	2210506933	E452P2N30011A1A
5470	2210506934	E452P2N30011A1B
5471	2210506935	E452P2N30011A1C
5472	2210506936	E452P2N30011A1D
5473	2210506937	E452P2N30011A1E
5474	2210506938	E452P2N30011A1G
5475	2210506939	E452P2N30011A1H
5476	2210506940	E452P2N30011A1K
5477	2210506941	E452P2N30011A1L
5478	2210506942	E452P2N30011A1M
5479	2210506943	E452P2N30011C31
5480	2210506944	E452P2N30011C32

Pos.	Molex PN:	Engineering No.:
5481	2210506945	E452P2N30011C33
5482	2210506946	E452P2N30011C34
5483	2210506947	E452P2N30011C35
5484	2210506948	E452P2N30011C3A
5485	2210506949	E452P2N30011C3B
5486	2210506950	E452P2N30011C3C
5487	2210506951	E452P2N30011C3D
5488	2210506952	E452P2N30011C3E
5489	2210506953	E452P2N30011C3G
5490	2210506954	E452P2N30011C3H
5491	2210506955	E452P2N30011C3K
5492	2210506956	E452P2N30011C3L
5493	2210506957	E452P2N30011C3M
5494	2210506958	E452P2N30011C41
5495	2210506959	E452P2N30011C42
5496	2210506960	E452P2N30011C43
5497	2210506961	E452P2N30011C44
5498	2210506962	E452P2N30011C45
5499	2210506963	E452P2N30011C4A
5500	2210506964	E452P2N30011C4B
5501	2210506965	E452P2N30011C4C
5502	2210506966	E452P2N30011C4D
5503	2210506967	E452P2N30011C4E
5504	2210506968	E452P2N30011C4G
5505	2210506969	E452P2N30011C4K
5506	2210506970	E452P2N30011C4M
5507	2210506975	E452P2N30011E05
5508	2210506990	E452P2N30011R05
5509	2210507001	E452P2N30011R21
5510	2210507002	E452P2N30011R22
5511	2210507003	E452P2N30011R23
5512	2210507004	E452P2N30011R24
5513	2210507005	E452P2N30011R25
5514	2210507006	E452P2N30011R2A
5515	2210507007	E452P2N30011R2B
5516	2210507008	E452P2N30011R2C
5517	2210507009	E452P2N30011R2D
5518	2210507010	E452P2N30011R2E
5519	2210507011	E452P2N30011R2G
5520	2210507012	E452P2N30011R2H

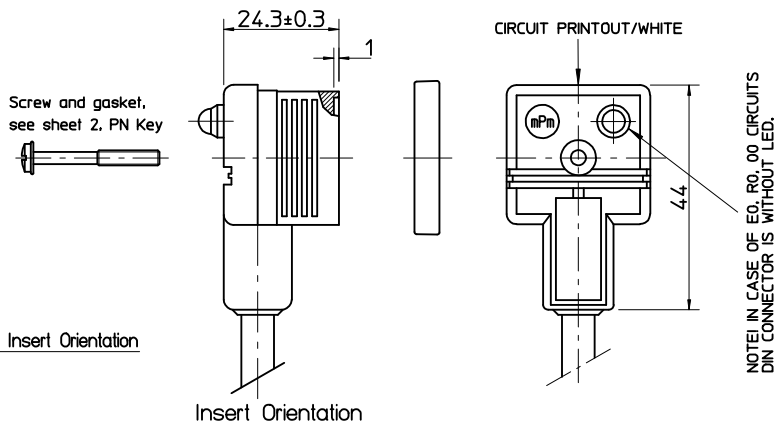
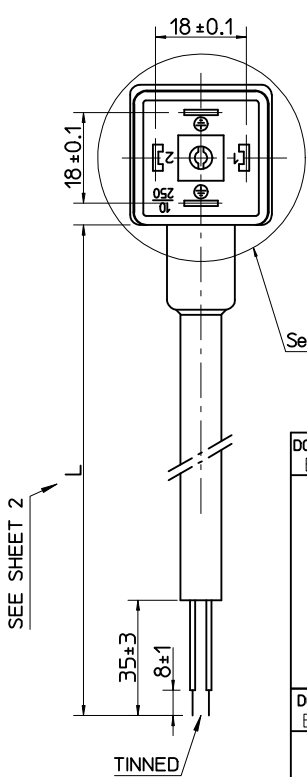
Pos.	Molex PN:	Engineering No.:
5521	2210507013	E452P2N30011R2K
5522	2210507014	E452P2N30011R2L
5523	2210507015	E452P2N30011R2M
5524	2210507016	E452P2N30011S01
5525	2210507017	E452P2N30011S02
5526	2210507018	E452P2N30011S03
5527	2210507019	E452P2N30011S04
5528	2210507020	E452P2N30011S05
5529	2210507021	E452P2N30011S0A
5530	2210507022	E452P2N30011S0B
5531	2210507023	E452P2N30011S0C
5532	2210507024	E452P2N30011S0D
5533	2210507025	E452P2N30011S0E
5534	2210507026	E452P2N30011S0G
5535	2210507027	E452P2N30011S0K
5536	2210507028	E452P2N30011S0L
5537	2210507029	E452P2N30011S0M
5538	2210507030	E452P2N50011000
5539	2210507031	E452P2N50011A11
5540	2210507032	E452P2N50011A12
5541	2210507033	E452P2N50011A13
5542	2210507034	E452P2N50011A14
5543	2210507035	E452P2N50011A15
5544	2210507036	E452P2N50011A1A
5545	2210507037	E452P2N50011A1B
5546	2210507038	E452P2N50011A1C
5547	2210507039	E452P2N50011A1D
5548	2210507040	E452P2N50011A1E
5549	2210507041	E452P2N50011A1G
5550	2210507042	E452P2N50011A1H
5551	2210507043	E452P2N50011A1K
5552	2210507044	E452P2N50011A1L
5553	2210507045	E452P2N50011A1M
5554	2210507046	E452P2N50011C31
5555	2210507047	E452P2N50011C32
5556	2210507048	E452P2N50011C33
5557	2210507049	E452P2N50011C34
5558	2210507050	E452P2N50011C35
5559	2210507051	E452P2N50011C3A
5560	2210507052	E452P2N50011C3B

Pos.	Molex PN:	Engineering No.:
5561	2210507053	E452P2N50011C3C
5562	2210507054	E452P2N50011C3D
5563	2210507055	E452P2N50011C3E
5564	2210507056	E452P2N50011C3G
5565	2210507057	E452P2N50011C3H
5566	2210507058	E452P2N50011C3K
5567	2210507059	E452P2N50011C3L
5568	2210507060	E452P2N50011C3M
5569	2210507061	E452P2N50011C41
5570	2210507062	E452P2N50011C43
5571	2210507063	E452P2N50011C44
5572	2210507064	E452P2N50011C45
5573	2210507065	E452P2N50011C4A
5574	2210507066	E452P2N50011C4C
5575	2210507067	E452P2N50011C4D
5576	2210507068	E452P2N50011C4E
5577	2210507069	E452P2N50011C4K
5578	2210507074	E452P2N50011E05
5579	2210507089	E452P2N50011R05
5580	2210507100	E452P2N50011R21
5581	2210507101	E452P2N50011R22
5582	2210507102	E452P2N50011R23
5583	2210507103	E452P2N50011R24
5584	2210507104	E452P2N50011R25
5585	2210507105	E452P2N50011R2A
5586	2210507106	E452P2N50011R2B
5587	2210507107	E452P2N50011R2C
5588	2210507108	E452P2N50011R2D
5589	2210507109	E452P2N50011R2E
5590	2210507110	E452P2N50011R2G
5591	2210507111	E452P2N50011R2H
5592	2210507112	E452P2N50011R2K
5593	2210507113	E452P2N50011R2L
5594	2210507114	E452P2N50011R2M
5595	2210507115	E452P2N50011S01
5596	2210507116	E452P2N50011S02
5597	2210507117	E452P2N50011S03
5598	2210507118	E452P2N50011S04
5599	2210507119	E452P2N50011S05
5600	2210507120	E452P2N50011S0A

9	8	7	6	5	4	3	2	1
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DIMENSION UNITS		SCALE		CURRENT REV DESC: REVISION CREATED FOR REMOVING PRE-RELEASE STAMP			mm NTS			E452XXXXXXXXXX DIN FORM A EN 175301-803					
GENERAL TOLERANCES (UNLESS SPECIFIED)															
		MM	INCH												
4 PLACES	±	±		EC NO: 714567											
3 PLACES	±	±		DRWN: SUGEEB			2022/07/18								
2 PLACES	±	±		CHK'D: GGA			2022/07/19								
1 PLACE	±	±		APPR: GGA			2022/07/19								
0 PLACES	±	±		INITIAL REVISION:											
ANGULAR TOL		°		DRWN: JMARSZALEK			2012/08/27								
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				APPR: MDYSZEWSKA			2012/08/20								
FIRST ANGLE PROJECTION				DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
				A3-SIZE		121050		SD-121050-001		PSD		001		E1	
				MATERIAL NUMBER		CUSTOMER						SHEET NUMBER			
				SEE TABLE		GENERAL MARKET						38 OF 41			

10 9 8 7 6 5 4 3 2 1



DOUBLE EARTH ON 6H & 12H E451XXXXXXXX1XXXX	EARTH PIN ON 12H E451XXXXXXXX2XXXX	EARTH PIN ON 6H E451XXXXXXXX6XXXX
DOUBLE EARTH ON 3H & 9H E451XXXXXXXX4XXXX	EARTH PIN ON 3H E451XXXXXXXX3XXXX	EARTH PIN ON 9H E451XXXXXXXX9XXXX

DOUBLE EARTH ON 6H & ON 12H
E451XXXXXXXX1XC3X
E451XXXXXXXX1XC7X
E451XXXXXXXX1XR0X
E451XXXXXXXX1XR2X

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

WIRING CONFIGURATION

ELECTRICAL DIAGRAM R0 BROWN < 2- BLUE < 1+ NOT USED < 1 NOT USED < 2	ELECTRICAL DIAGRAM C4 BROWN (BLACK 1) < 1 BLUE (BLACK 2) < 2 NOT USED < 1 NOT USED < 2	ELECTRICAL DIAGRAM S0 BROWN < 1 BLUE < 2 NOT USED < 1 NOT USED < 2																									
ELECTRICAL DIAGRAM S3 BROWN (BLACK 1) < 1 BLUE (BLACK 2) < 2 NOT USED < 1 NOT USED < 2	ELECTRICAL DIAGRAM A1 BROWN < 1 BLUE < 2 NOT USED < 1 NOT USED < 2	ELECTRICAL DIAGRAM C3 BROWN < 1 BLUE < 2 NOT USED < 1 NOT USED < 2																									
ELECTRICAL DIAGRAM E0 BROWN + < 1 BLUE - < 2 NOT USED < 1 NOT USED < 2 Note: Circuit E0 works from 12V to 230V Only one type in coding E4520000000E05	ELECTRICAL DIAGRAM R2 BROWN < 2- BLUE < 1+ NOT USED < 1 NOT USED < 2	ELECTRICAL DIAGRAM C7 BROWN + < 1 BLUE - < 2 NOT USED < 1 NOT USED < 2																									
Table of lenght tolerances [mm] <table><tr><th>Over</th><th>Up to and including</th><th>Tolerance (+)</th></tr><tr><td>0</td><td>1000</td><td>±20</td></tr><tr><td>1000</td><td>3000</td><td>±30</td></tr><tr><td>3000</td><td>5000</td><td>±40</td></tr><tr><td>5000</td><td>10000</td><td>±50</td></tr><tr><td>10000</td><td>15000</td><td>±100</td></tr><tr><td>15000</td><td>20000</td><td>±150</td></tr><tr><td>20000</td><td></td><td>±L/100</td></tr></table>			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	ELECTRICAL DIAGRAM 00 WITHOUT LED BROWN < 1 BLUE < 2 NOT USED < 1 NOT USED < 2
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																									

ORIGINAL RELEASE EC NO: IPG2013-1190 DRWN: JMARSZALEK 2012/11/12 CHKD: MSZWAJKOWSKI 2012/11/12 APPR: MIWASIECZKO 2013/02/12	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE -	DESIGN UNITS METRIC	FIRST ANGLE PROJECTION
		4 PLACES 3 PLACES 2 PLACES 1 PLACE 0 PLACE	mm INCH	DRAWN BY JMARSZALEK	DATE 2012/11/12	TITLE E451XXXXXXXXXXXX DIN FORM A EN 175301-803 molex	DOCUMENT NO. SD-121050-004	
				CHECKED BY MSZWAJKOWSKI	DATE 2012/11/12			
				APPROVED BY MIWASIECZKO	DATE 2013/02/12			
				MATERIAL NO.				
ANGULAR ±---°		MATRIX DRAWING		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SHEET NO. 1 OF 3		

9 8 7 6 5 4 3 2 1

	10	9	8	7	6	5	4	3	2	1																																																																																																																																																		
F	E	4	5	1	X	X	X	X	X	X	X	F																																																																																																																																																
	E - Packing without bags W - Single packing Q - Quick packing NUMBER OF WIRES: 1=2 WIRES 2=2 WIRES + EARTH 3=3 WIRES + EARTH CABLE TYPE SEE SHEET 3 - TABLE 1 CABLE CROSS SECTION AREA SEE SHEET 3 - TABLE 2 HEAD COLOUR: G=GREY; N=BLACK; T=TRANSPARENT; A=CSA-UL BLACK; B=CSA-UL GREY. CABLE LENGHT IN CM Eg.:050=50 CM, 300=300 CM, 10K=1000 CM. EARTH PIN LOCATION: 1=DOUBLE EARTH ON 6H AND 12H. 2=EARTH ON 12H. 6=EARTH ON 6H. TYPE OF GASKET AND SCREW: 1=NBR PROFILE GASKET + FIXING SCREWS (M3x25 mm). 2=NBR FLAT GASKET + FIXING SCREW (M3x25 mm). 3=SILICONE PROFILE GASKET + FIXING SCREW (M3x25 mm). 4=SILICON FLAT GASKET + FIXING SCREW (M3x25 mm). P=INTEGRATED GASKET ASSEMBLED + FIXING SCREW WITH GROMMET ASSEMBLED ON CONNECTOR (M3x27 mm). R=INTEGRATED GASKET + FIXING SCREW + GROMMET (M3x27 mm). T=PROFILE GASKET + FIXING SCREW + GROMMET (M3x27 mm). INTERNAL CIRCUIT WIRING CONFIGURATION VOLTAGE AND LED COLOUR: 1= 12V 2= 24V 3= 48V 4= 115V 5= 230V RED LED A= 12V B= 24V C= 48V D= 115V E= 230V GREEN LED G= 12V H= 24V K= 48V L= 115V M= 230V YELLOW LED <tr><td>E</td><td colspan="11"></td><td>E</td></tr> <tr><td>D</td><td colspan="11"></td><td>D</td></tr> <tr><td>C</td><td colspan="11"></td><td>C</td></tr> <tr><td>B</td><td colspan="11"></td><td>B</td></tr> <tr><td>A</td><td colspan="11"></td><td>A</td></tr> <tr><td colspan="12"><table><tr><td rowspan="5">ORIGINAL RELEASE EC NO: IPG2013-1190 DRWN: JMARSZALEK 2012/11/12 CHKD: MSZWAJKOWSKI 2012/11/12 APPR: MIWASIECZKO 2013/02/12</td><td rowspan="5">DESCRIPTION REV</td><td>QUALITY SYMBOLS ▽=0 ◻=0</td><td colspan="2">GENERAL TOLERANCES (UNLESS SPECIFIED)</td><td colspan="2">DIMENSION STYLE MM ONLY</td><td>SCALE -</td><td>DESIGN UNITS METRIC</td><td colspan="2">FIRST ANGLE PROJECTION</td></tr><tr><td rowspan="4">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td>mm</td><td>INCH</td><td>DRAWN BY JMARSZALEK</td><td>DATE 2012/11/12</td><td colspan="2" rowspan="4">TITLE E451XXXXXXXXXXXX DIN FORM A EN 175301-803 molex</td><td rowspan="4">DOCUMENT NO. 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TABLE 2 - CABLES

Molex PN	mPm	Code	Wires	Cross Section	Material	Color	Diameter Ø	DIN A-B	DIN C
1210180080	I	0	3	1 mm2	PVC CEI 2022 II O.R.	Grey RAL7035	6,4±0,2 mm	OK.	-
1210180467	A	2	2	20 AWG	PVC CSA/UL 2661	Black	5,4±0,2 mm	OK.	OK.
1210180128	A	2	3	20 AWG	PVC CSA/UL 2661	Black	5,6±0,2 mm	OK.	OK.
1210180394	A	2	4	20 AWG	PVC CSA/UL 2661	Black	6,2±0,25 mm	OK.	OK.
-	A	2	5	20 AWG	PVC CSA/UL 2661	Black	7±0,2 mm	OK.	-
1210180297	B	2	2	20 AWG	PUR CSA/UL 20668	Black	5,6±0,2 mm	OK.	OK.
1210180126	B	2	3	20 AWG	PUR CSA/UL 20668	Black	5,6±0,2 mm	OK.	OK.
1210180387	B	2	4	20 AWG	PUR CSA/UL 20668	Black	6,2±0,2 mm	OK.	OK.
-	B	2	5	20 AWG	PUR CSA/UL 20668	Black	7±0,2 mm	OK.	-
1210180122	D	2	3	0,5 mm2	PVC TI2 CEI 20-20	Grey	5,5±0,2 mm	OK.	OK.
-	F	2	3	0,5 mm2	CNOMO	Grey RAL7000	5,6±0,2 mm	OK.	OK.
1210180047	I	2	2	0,5 mm2	PVC CEI 2022 II O.R.	Grey RAL7035	5,5±0,3/-0 mm	OK.	OK.
1210180284	I	2	3	0,5 mm2	PVC CEI 2022 II O.R.	Grey RAL7035	5,6±0,3/-0 mm	OK.	OK.
1210180146	I	2	4	0,5 mm2	PVC CEI 2022 II O.R.	Grey RAL7035	6,5±0,2 mm	OK.	OK.
1210180177	I	2	5	0,5 mm2	PVC CEI 2022 II O.R.	Grey RAL7035	7±0,2 mm	OK.	-
1210180022	N	2	2	0,5 mm2	PVCH03	Black	5,2±0,2 mm	OK.	OK.
1202092753	N	2	3	0,5 mm2	PVCH03	Black	5,5±0,2 mm	OK.	OK.
1210180153	N	2	4	0,5 mm2	PVCH03	Black	6,9 mm max	OK.	OK.
1210180046	P	2	2	0,5 mm2	PUR - BLEND	Black	5,6±0,2 mm	OK.	OK.
1202092439	P	2	3	0,5 mm2	PUR - BLEND	Black	5,5 +0,3/-0 mm	OK.	OK.
1210180302	P	2	4	0,5 mm2	PUR - BLEND	Black	6,5±0,2 mm	OK.	OK.
1202092215	P	2	5	0,5 mm2	PUR - BLEND	Black	7±0,3/-0,1 mm	OK.	OK.
1210180409	A	3	2	18 AWG	PVC CSA/UL 2661	Black	6,5±0,25 mm	OK.	-
1210180129	A	3	3	18 AWG	PVC CSA/UL 2661	Black	6,5±0,25 mm	OK.	-
1210180159	A	3	4	18 AWG	PVC CSA/UL 2661	Black	7±0,3 mm	OK.	-
1210180464	A	3	5	18 AWG	PVC CSA/UL 2661	Black	7,8±0,25 mm	OK.	-
1210180351	B	3	2	18 AWG	PUR CSA/UL 20668	Black	6,8±0,2 mm	OK.	-
1210180127	B	3	3	18 AWG	PUR CSA/UL 20668	Black	6,5±0,2 mm	OK.	-
1210180160	B	3	4	18 AWG	PUR CSA/UL 20668	Black	7±0,2 mm	OK.	-
1210180463	B	3	5	18 AWG	PUR CSA/UL 20668	Black	7,8±0,2 mm	OK.	-
1210180073	D	3	3	0,75 mm2	PVC TI2 CEI 20-20	Grey	6,5±0,2 mm	OK.	OK.
1210180145	D	3	4	0,75 mm2	PVC TI2 CEI 20-20	Grey	7,1±0,2 mm	OK.	-
1202098208	I	3	2	0,75 mm2	PVC CEI 2022 II O.R.	Grey RAL7001	5,5±0,2 mm	OK.	-
1210180120	I	3	3	0,75 mm2	PVC CEI 2022 II O.R.	Grey RAL7035	6±0,2 mm	OK.	-
1210180143	I	3	4	0,75 mm2	PVC CEI 2022 II O.R.	Grey RAL7035	7±0,2 mm	OK.	-
1210180032	N	3	2	0,75 mm2	PVCH05	Black	6,2±0,2 mm	OK.	-
1210180069	N	3	3	0,75 mm2	PVCH05	Black	6,5±0,2 mm	OK.	-
1210180144	N	3	4	0,75 mm2	PVCH05	Black	7,1±0,2 mm	OK.	-
1210180174	N	3	5	0,75 mm2	PVCH05	Black	8,0±0,2-0 mm	OK.	-
1202094190	P	3	2	0,75 mm2	PUR - BLEND	Black	6,5±0,2 mm	OK.	-

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Molex PN	mPm	Code	Wires	Cross Section	Material	Color	Diameter Ø	DIN A-B	DIN C
1210180071	P	3	3	0,75 mm2	PUR - BLEND	Black	6,5±0,2 mm	OK.	-
1210180152	P	3	4	0,75 mm2	PUR - BLEND	Black	7±0,2 mm	OK.	-
1210180384	R	3	3	0,75 mm2	TPR HAL. FREE	Black	6,5±0,2 mm	OK.	-
1210180094	T	3	3	0,75 mm2	PUR CSA/UL	Yellow	6,5±0,2 mm	OK.	-
1210180309	Y	3	3	0,75 mm2	SIL/0300	Red	6,5±0,2 mm	OK.	-
1210180081	F	4	3	1 mm2	CNOMO	Grey RAL7000	7,1±0,2/-0 mm	OK.	-
-	F	4	4	1 mm2	CNOMO	Grey RAL7000	7,1±0,2/-0 mm	OK.	-
1210180042	I	4	2	1 mm2	PVC CEI 2022 II O.R.	Grey RAL7035	7,1±0,2/-0 mm	OK.	-
1210180079	I	4	3	1 mm2	PVC CEI 2022 II O.R.	Grey RAL7035	7,1±0,2/-0 mm	OK.	-
1210180036	N	4	2	1 mm2	PVCH05	Black	6,5±0,2 mm	OK.	-
1210180082	N	4	3	1 mm2	PVCH05	Black	6,9±0,2 mm	OK.	-
1210180117	R	4	3	1 mm2	TPR HAL. FREE	Black	7,1±0,2 mm	OK.	-
1210180085	N	5	3	1,5 mm2	PVCH05	Black	8,3±0,2/-0 mm	OK.	-
1210180313	I	6	2	0,35 mm2	PVC CEI 2022 II O.R.	Grey RAL7035	4,8±0,2 mm	OK.	-
-	A	7	3	20 AWG	PVC CSA/UL 2661	Yellow	5,6±0,2 mm	OK.	OK.
1210180149	I	9	4	0,75 mm2	PVC CEI 2022 II O.R.	Grey RAL7035	7,3±0,2 mm	OK.	-

TABLE 1 - CABLES TYPE

Code	Cable types	Features	Stranding
N	PVC	Application general purpose cable which has good resistance to water, but usually poor oil resistance.	0,5 mm2 = 15 x 0,20 0,75 mm2 = 21 x 0,20 1 mm2 = 28 x 0,20
I	CEI	Approved to IEC 332-2A, flame retardant and self extinguishing. Limited resistant to mineral oils.	0,5 mm2 = 28 x 0,15 0,75 mm2 = 42 x 0,15 1 mm2 = 32 x 0,20
P	PUR	Offer good resistance to oil and chemicals. Can swell when constantly immersed in water.	0,5 mm2 = 28 x 0,15 0,75 mm2 = 42 x 0,15 1 mm2 = 32 x 0,20
A	PVC CSA-UL	Approved to CSA-UL 2661, application general purpose cable which has good resistance to water, but usually poor oil resistance.	20 AWG = 32 x 0,15 18 AWG = 52 x 0,15
B	PUR CSA-UL	Approved to CSA-UL 20668, very good resistance to oil and chemicals.	20 AWG = 32 x 0,15 18 AWG = 52 x 0,15

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QUALITY SYMBOLS
▽=0
◻=0

DESCRIPTION
REV

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	2012/11/12
CHECKED BY	DATE
MSZWAJKOWSKI	2012/11/12
APPROVED BY	DATE
MIWASIECZKO	2013/02/12

MATERIAL NO.
MATRIX DRAWING
SIZE A3
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

SCALE
-

DESIGN UNITS
METRIC

FIRST ANGLE PROJECTION

E451XXXXXXXXXX
DIN FORM A
EN 175301-803

molex

DOCUMENT NO.

SD-121050-004

SHEET NO.

3 OF 3