

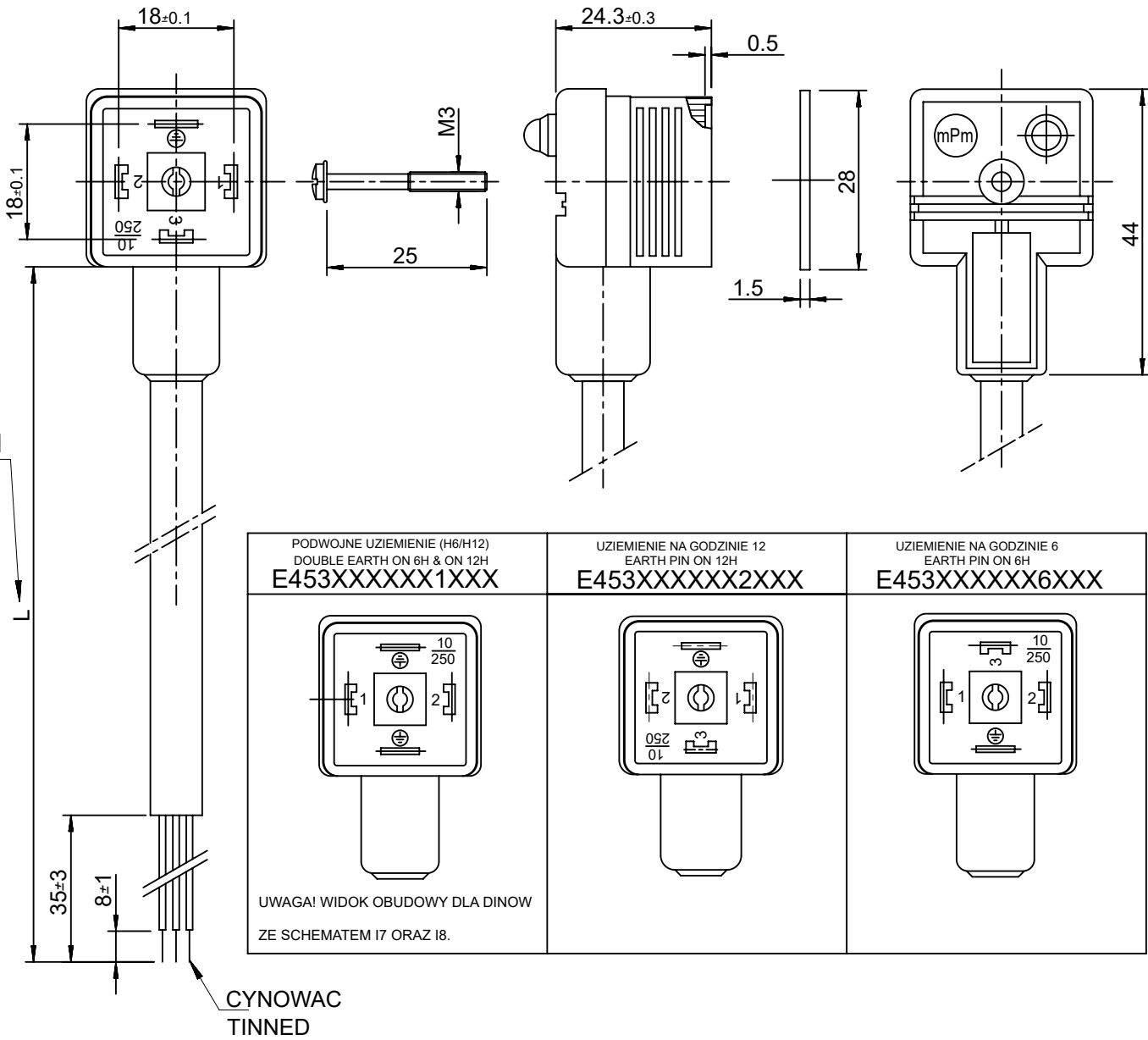


Table of length tolerances/ Tablica tolerancji dlugosci mm		
Over/Od	Up to and including/ Do-wlacznie	Tolerance/Tolerancja
100	1000	±20
1000	3000	±30
3000	5000	±40
5000	10000	±50
10000	15000	±100
15000	20000	±150
20000		±L/100

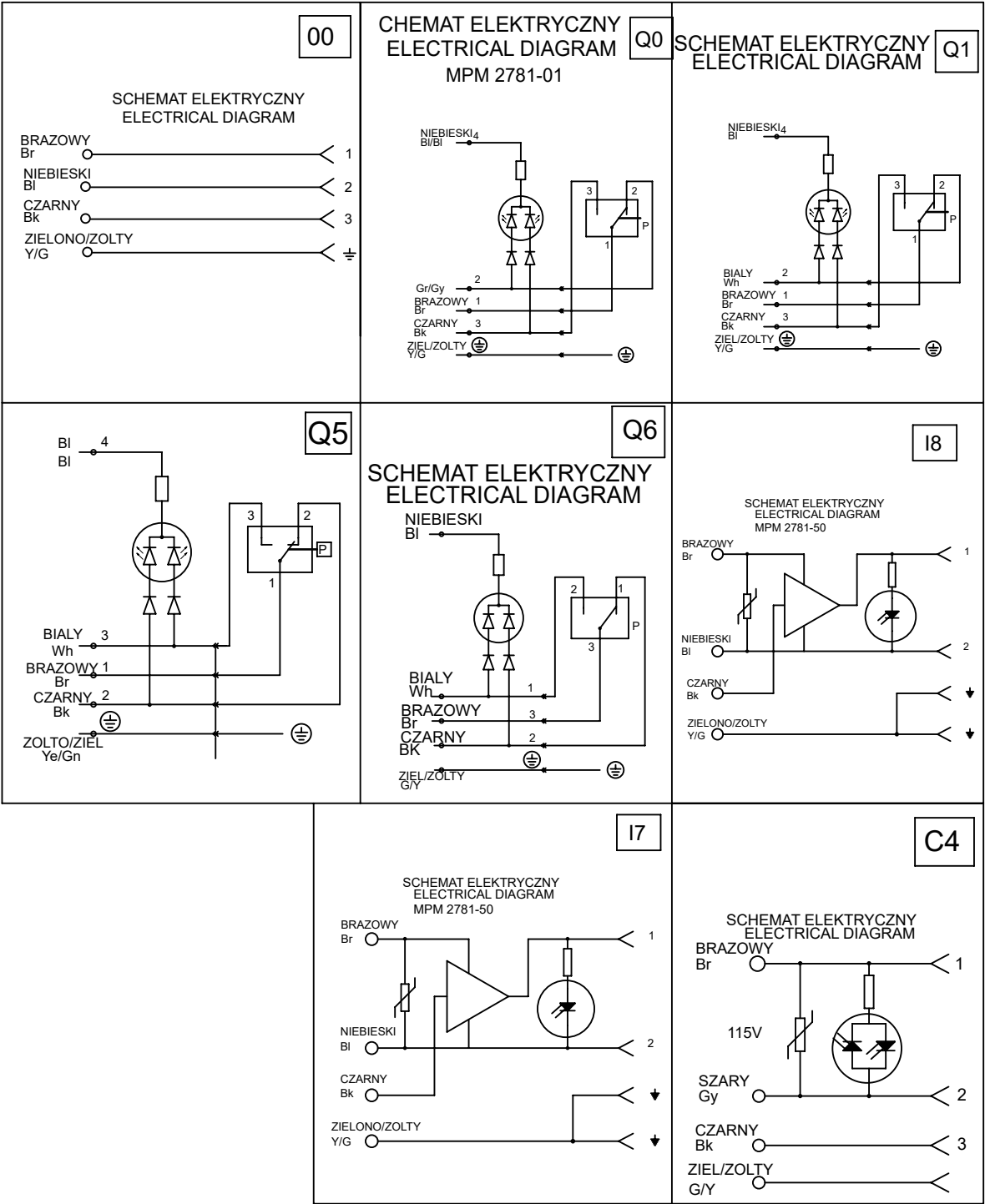
UWAGI:

1. DLUGOSC PATRZ ARKUSZ 2.

NOTES:

1. LENGHT SEE SHEET 2.

SCHEMATY POLACZEN/WIRING CONFIGURATION



E

4

5

3

X

X

X

X

X

X

X

X

X

X

E - Pakowanie bez workow
W - Pakowanie pojedynczo
Q - Szybkie pakowanie

ILOSC PRZEWODOW/NUMBER OF WIRES:
1=2 PRZEWODY,
2=2 PRZEWODY+UZIEMIENIE,
3=3 PRZEWODY+UZIEMIENIE.

TYP KABLA/CABLE TYPE
PATRZ TABELA 1/SEE TABLE 1

RODZAJ KABLA/CABLE CROSS SECTION AREA
PATRZ TABELA 2/SEE TABLE 2

KOLOR MOULDINGU/HEAD COLOUR:
G=SZARY/GREY;
N=CZARNY/BLACK;
T=PRZEZROCZYSTY/TRANSPARENT;
A=CZARNY/BLACK;
B=SZARY/GREY.

DLUGOSC KABLA W CM/CABLE LENGHT IN CM
NP:050=50 CM, 300=300 CM.

POLOZENIE PINU Z UZIEMIENIEM/EARTH PIN LOCATION:
1=PODWOJNE UZIEMIENIE NA GODZINIE 6 ORAZ 12/DOUBLE EARTH ON 6H AND 12H,
2=UZIEMIENIE NA GODZINIE 12/1EARTH ON 12H,
6=UZIEMIENIE NA GODZINIE 6/EARTH ON 6H.

GASKET ORAZ SRUBY/GASKET SCREWS:
1=GASKET PROFILOWANY+SRUBA/NBR PROFILE GASKET+FIXING SCREWS,
2=NBR PLASKI GASKET+SRUBA/NBR FLAT GASKET+SCREW,
3=SILIKONOWY PROFILOWANY GASKET+SRUBA/SILICONE PROFILE GASKET+SCREW,
4=SILIKOWANY PLASKI GASKET+SRUBA/SILICON FLAT GASKET+SCREW,
P=ZINTEGROWANY GASKET+SRUBA/INTEGRATED GASKET+FIXING SCREW,
R=ZINTEGROWANY GASKET+SRUBA/INTEGRATED GASKET+SCREW,
T=PROFILOWANY GASKET+SRUBA, PROFILE GASKET+SCREW.

RODZAJ POLACZENIA/INTERNAL CIRQUIT
PATRZ SCHEMATY POLACZEN/WIRING CONFIGURATION

NAPIECIE ORAZ KOLOR DIODY/VOLTAGE AND LED COLOUR:
1= 12V
2= 24V
3= 48V
4= 115V
5= 230V
CZERWONA DIODA
RED LED
A= 12V
B= 24V
C= 48V
D= 115V
E= 230V
ZIELONA DIODA
GREEN LED
G= 12V
H= 24V
K= 48V
L= 115V
M= 230V
ZOLTA DIODA
YELLOW LED

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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

FIRST ANGLE PROJECTION

DRAWING

A3-SIZE

SERIES

121040

MATERIAL NUMBER

SEE TABLE

CUSTOMER

GENERAL MARKET

SHEET NUMBER

2 OF 4

CURRENT REV DESC: REMOVED OBSOLETE PART
NUMBERS AS PER PCN#515183

EC NO: 826029

DRWN: RAGHAH3

CHK'D: GGA

APPR: GGA

2025/06/19

2025/06/27

2025/06/27

2025/06/27

INITIAL REVISION:

DRWN: MWOLSZCZAK

APPR: GOGRODNIK

2009/01/20

2009/01/20

DOCUMENT NUMBER

E453XXXXXXXXXX

DOC TYPE

PSD

DOC PART

001

REVISION

B3

PRODUCT CUSTOMER DRAWING

DOCUMENT STATUS

P1

RELEASE DATE

2025/06/27

09:09:12

10

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8

7

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4

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2

1

TABELA 2 KABLE/TABLE 2 CABLES

MOLEX PN	mPm	Code	PRZEW	PRZEKROJ	MATERIAL	KOLOR/COLOUR	SREDNICA Ø	DIN A-B	DIN C
1210180080	I	0	3	1 mm2	PVC CEI 2022 II O.R.	Szary/Grey RAL7035	-	-	-
1210180467	A	2	2	20 AWG	PVC CSA/UL 2661	Czarny/Black	5,5+/-0,2 mm	OK.	OK.
-	A	2	3	20 AWG	PVC CSA/UL 2661	Czarny/Black	5,6+/-0,2 mm	OK.	OK.
1210180394	A	2	4	20 AWG	PVC CSA/UL 2661	Czarny/Black	6,2+/-0,2 mm	OK.	OK.
-	A	2	5	20 AWG	PVC CSA/UL 2661	Czarny/Black	7+/-0,2 mm	OK.	
1210180297	B	2	2	20 AWG	PUR CSA/UL 20668	Czarny/Black	5,5+/-0,2 mm	OK.	OK.
1210180126	B	2	3	20 AWG	PUR CSA/UL 20668	Czarny/Black	5,6+/-0,2 mm	OK.	OK.
1210180387	B	2	4	20 AWG	PUR CSA/UL 20668	Czarny/Black	6,2+/-0,2 mm	OK.	OK.
-	B	2	5	20 AWG	PUR CSA/UL 20668	Czarny/Black	7+/-0,2 mm	OK.	
1210180122	D	2	3	0,5 mm2	PVC TI2 CEI 20-20	Szary/Grey	-	-	-
-	F	2	3	0,5 mm2	CNOMO	Szary/Grey RAL7000	5,5+/-0,2 mm	OK.	OK.
1210180047	I	2	2	0,5 mm2	PVC CEI 2022 II O.R.	Szary/Grey RAL7035	5,5+/-0,2 mm	OK.	OK.
-	I	2	3	0,5 mm2	PVC CEI 2022 II O.R.	Szary/Grey RAL7035	5,5+/-0,2 mm	OK.	OK.
1210180146	I	2	4	0,5 mm2	PVC CEI 2022 II O.R.	Szary/Grey RAL7035	6,5+/-0,2 mm	OK.	
1210180177	I	2	5	0,5 mm2	PVC CEI 2022 II O.R.	Szary/Grey RAL7035	7+/-0,2 mm	OK.	
1210180022	N	2	2	0,5 mm2	PVCH03	Czarny/Black	5,1+ 0,2-0 mm	OK.	OK.
1210180064	N	2	3	0,5 mm2	PVCH03	Czarny/Black	5,4+ 0,2-0 mm	OK.	OK.
1210180153	N	2	4	0,5 mm2	PVCH03	Czarny/Black	5,75+0,2-0 mm	OK.	OK.
1210180046	P	2	2	0,5 mm2	PUR - BLEND	Czarny/Black	5,5+/-0,2 mm	OK.	OK.
-	P	2	3	0,5 mm2	PUR - BLEND	Czarny/Black	5,5+/-0,2 mm	OK.	OK.
1210180302	P	2	4	0,5 mm2	PUR - BLEND	Czarny/Black	-	-	-
-	P	2	5	0,5 mm2	PUR - BLEND	Czarny/Black	7+/-0,2 mm	OK.	OK.
1210180409	A	3	2	18 AWG	PVC CSA/UL 2661	Czarny/Black	6,5+/-0,2 mm	OK.	
1210180129	A	3	3	18 AWG	PVC CSA/UL 2661	Czarny/Black	6,5+/-0,2 mm	OK.	
1210180159	A	3	4	18 AWG	PVC CSA/UL 2661	Czarny/Black	7+/-0,2 mm	OK.	
-	A	3	5	18 AWG	PVC CSA/UL 2661	Czarny/Black	7,8+/-0,2 mm	OK.	
1210180351	B	3	2	18 AWG	PUR CSA/UL 20668	Czarny/Black	6,5+/-0,2 mm	OK.	
1210180127	B	3	3	18 AWG	PUR CSA/UL 20668	Czarny/Black	6,5+/-0,2 mm	OK.	
1210180127	B	3	4	18 AWG	PUR CSA/UL 20668	Czarny/Black	7+/-0,2 mm	OK.	
-	B	3	5	18 AWG	PUR CSA/UL 20668	Czarny/Black	7,8+/-0,2 mm	OK.	
1210180073	D	3	3	0,75 mm2	PVC TI2 CEI 20-20	Szary/Grey	-	-	-
1210180145	D	3	4	0,75 mm2	PVC TI2 CEI 20-20	Szary/Grey	-	-	-
1210180120	I	3	3	0,75 mm2	PVC CEI 2022 II O.R.	Szary/Grey RAL7035	-	-	-
1210180143	I	3	4	0,75 mm2	PVC CEI 2022 II O.R.	Szary/Grey RAL7035	-	-	-
1210180032	N	3	2	0,75 mm2	PVCH05	Czarny/Black	6,2+ 0,2-0 mm	OK.	
1210180069	N	3	3	0,75 mm2	PVCH05	Czarny/Black	6,6+0,2-0 mm	OK.	
-	N	3	4	0,75 mm2	PVCH05	Czarny/Black	7,15+0,2-0 mm	OK.	
1210180174	N	3	5	0,75 mm2	PVCH05	Czarny/Black	8,0+0,2-0 mm	OK.	
-	P	3	2	0,75 mm2	PUR - BLEND	Czarny/Black	6,5+/-0,2 mm	OK.	

TABELA 2 KABLE/TABLE 2 CABLES

MOLEX PN	mPm	Code	PRZEW	PRZEKROJ	MATERIAL	KOLOR/COLOUR	SREDNICA Ø	DIN A-B	DIN C
1210180071	P	3	3	0,75 mm2	PUR - BLEND	Czarny/Black	6,5+/-0,2 mm	OK.	
1210180152	P	3	4	0,75 mm2	PUR - BLEND	Czarny/Black	7+/-0,2 mm	OK.	
1210180384	R	3	3	0,75 mm2	TPR HAL. FREE	Czarny/Black	6,5+/-0,2 mm	OK.	
1210180094	T	3	3	0,75 mm2	PUR CSA/UL	Żółty/Yellow	-	-	-
1210180309	Y	3	3	0,75 mm2	SIL/0300	Czerwony/Red	6,5+/-0,2 mm	-	-
1210180081	F	4	3	1 mm2	CNOMO	Szary/Grey RAL7000	-	-	-
-	F	4	4	1 mm2	CNOMO	Szary/Grey RAL7000	7,1+0,2-0 mm	OK.	
1210180042	I	4	2	1 mm2	PVC CEI 2022 II O.R.	Szary/Grey RAL7035	7,1+0,2-0 mm	OK.	
1210180079	I	4	3	1 mm2	PVC CEI 2022 II O.R.	Szary/Grey RAL7035	7,1+0,2-0 mm	OK.	
1210180036	N	4	2	1 mm2	PVCH05	Czarny/Black	6,5+0,2-0 mm	OK.	
1210180082	N	4	3	1 mm2	PVCH05	Czarny/Black	6,9+0,2-0 mm	OK.	
1210180117	R	4	3	1 mm2	TPR HAL. FREE	Czarny/Black	-	-	-
1210180085	N	5	3	1,5 mm2	PVCH05	Czarny/Black	8,3+0,2-0 mm	OK.	
1210180313	I	6	2	0,35 mm2	PVC CEI 2022 II O.R.	Szary/Grey RAL7035	-	-	-
-	A	7	3	20 AWG	PVC CSA/UL 2661	Żółty/Yellow	5,6+/-0,2 mm	OK.	OK.
1210180149	I	9	4	0,75 mm2	PVC CEI 2022 II O.R.	Szary/Grey RAL7035	-	-	-

TABELA 1 TYPY KABLI/TABLE 1 CABLES TYPE

Znakowanie /Code	Rodzaje kabla /Cable type	Właściwości / Features	Przekroje /stranding
N	PVC	Kabel z dobrą rezystancją w wodzie ale słabą w oleju./Application general purpose cable which has good resistance to water, but usually poor oil resistance.	0.5 mm ² = 15 x 0.20 0.75 mm ² = 21 x 0.20 1 mm ² = 28 x 0.20
I	PVC	Zatwierdzone przez IEC 332-2A, samogaszący./Approved to IEC 332-2A, flame retardant and self extinguishing. Limited resistant to mineral oils.	0.5 mm ² = 28 x 0.15 0.75 mm ² = 42 x 0.15 1 mm ² = 32 x 0.20
P	PVC	Dobra rezystancja w olejach i chemikaljach./Offer good resistance to oil and chemicals. Can swell when constantly immersed in water.	0.5 mm ² = 28 x 0.15 0.75 mm ² = 42 x 0.15 1 mm ² = 32 x 0.20
A	PVC	Zatwierdzony porzez CSA-UL 2661.Dobra rezystancja na wodę słabą na olej./ 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	PVC	Zatwierdzony przez CSA-UL 20668, bardzo dobra rezystancja w oleju i chemikaljach./ Approved to CSA-UL 20668, very good resistance to oil and chemicals.	20 AWG = 32 x 0.15 18 AWG = 52 x 0.15

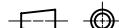
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION														
DIMENSION UNITS		SCALE		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#515183		molex								
mm		NTS												
GENERAL TOLERANCES (UNLESS SPECIFIED)						MPM E453XXXXXXXXXXX								
	MM	INCH	EC NO: 826029		PRODUCT CUSTOMER DRAWING									
4 PLACES	±	±	DRWN: RAGHAH32025/06/19											
3 PLACES	±	±	CHK'D: GGA2025/06/27											
2 PLACES	±	±	APPR: GGA2025/06/27		DOCUMENT NUMBER E453XXXXXXXXXXXXX									
1 PLACE	±	±	INITIAL REVISION:						DOC TYPE		DOC PART		REVISION	
0 PLACES	±	±	DRWN: MWOLSZCAK2009/01/20											
ANGULAR TOL			±	°	2009/01/20		PSD		001		B3			
APPR: GOGRODNIK														
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			FIRST ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
					A3-SIZE		121040		SEE TABLE		GENERAL MARKET		3 OF 4	

TABELA 3/CHART 3

MOLEX P/N	WOODHEAD P/N
1210400525	E453B3A10K22000
1210400526	E453B3A10K62000
1210400529	E453B3A50022000
1210400539	E453N3N30022000
1210400540	E453N3N30062000
1210400833	E453A3A10022000
1210400864	E453B2A30022000
1210400937	E453N3N2002P000
1210400953	E453N3N1002P000
1210400967	E453N3N5002P000
1210400973	E453P3N2502P000
1210502410	E453I2N30021Q12
1210502440	E453I2N50021Q12
1210502517	E453I2N10K21Q12
1210502557	E453I2N50021Q02
1210501787	E453N3N30061Q02
1210501869	E453P2N50021Q52
1210503035	E453N2N20061C42

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DIMENSION UNITS		SCALE		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#515183				molex				
mm		NTS										
GENERAL TOLERANCES (UNLESS SPECIFIED)												
		MM	INCH									
4 PLACES		±	±	EC NO: 826029 DRWN: RAGHAH3 CHK'D: GGA APPR: GGA				PRODUCT CUSTOMER DRAWING				
3 PLACES		±	±									
2 PLACES		±	±									
1 PLACE		±	±									
0 PLACES		±	±	INITIAL REVISION: DRWN: MWOLSZCZAK APPR: GOGRODNIK				DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
ANGULAR TOL		±	°					E453XXXXXXXXXXXX		PSD	001	B3
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				FIRST ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER		CUSTOMER		SHEET NUMBER
						A3-SIZE	121040	SEE TABLE		GENERAL MARKET		4 OF 4

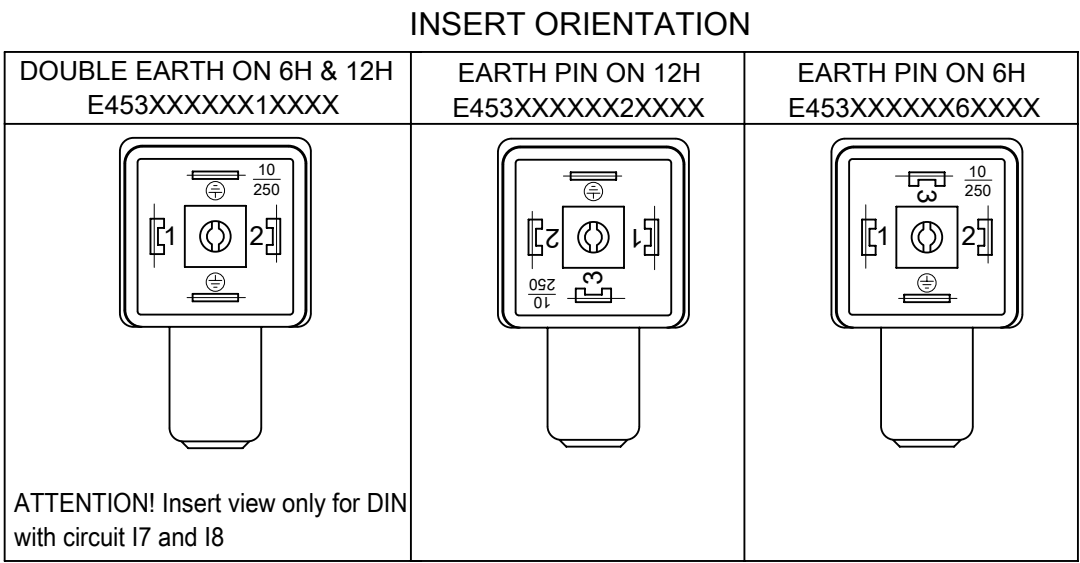
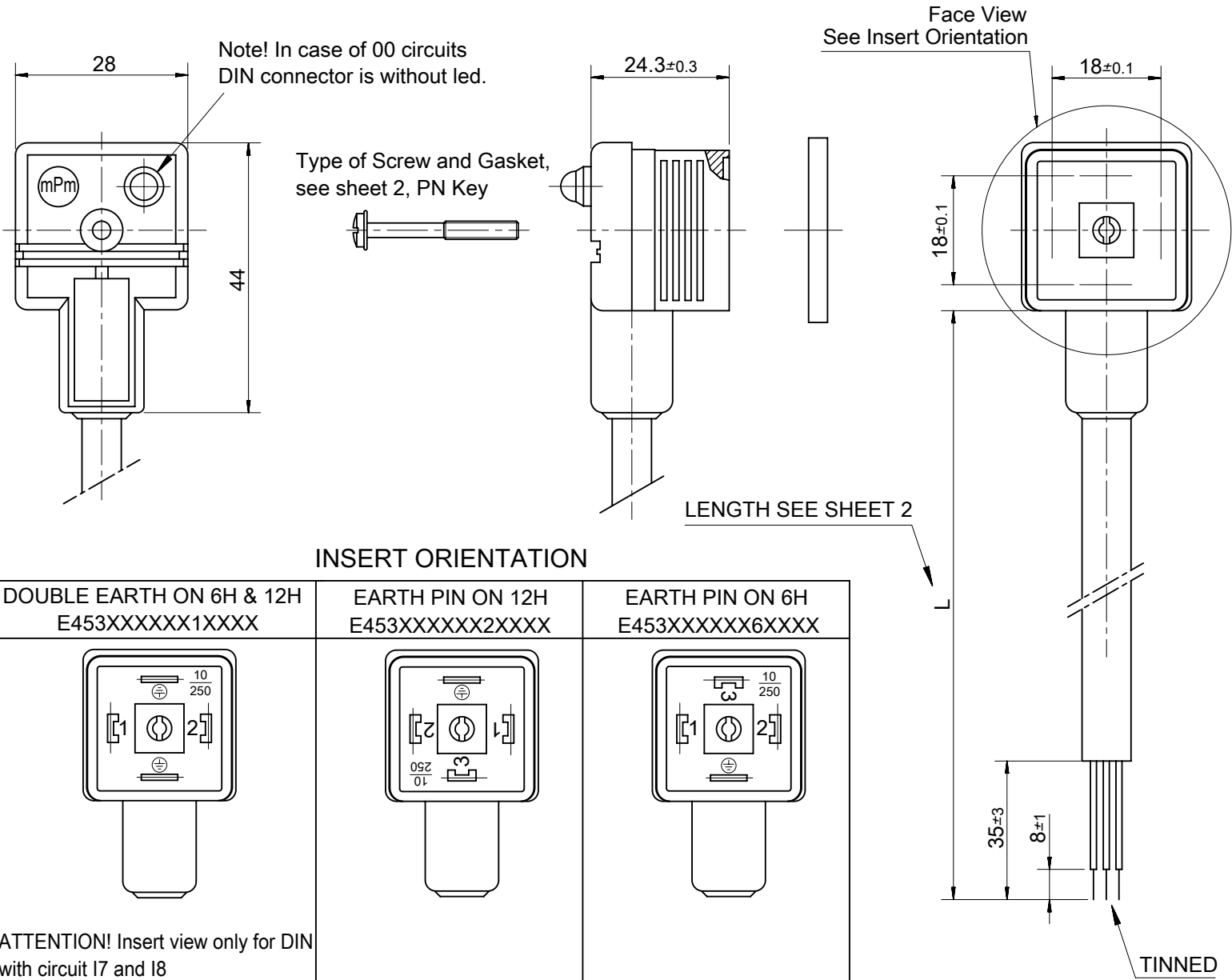
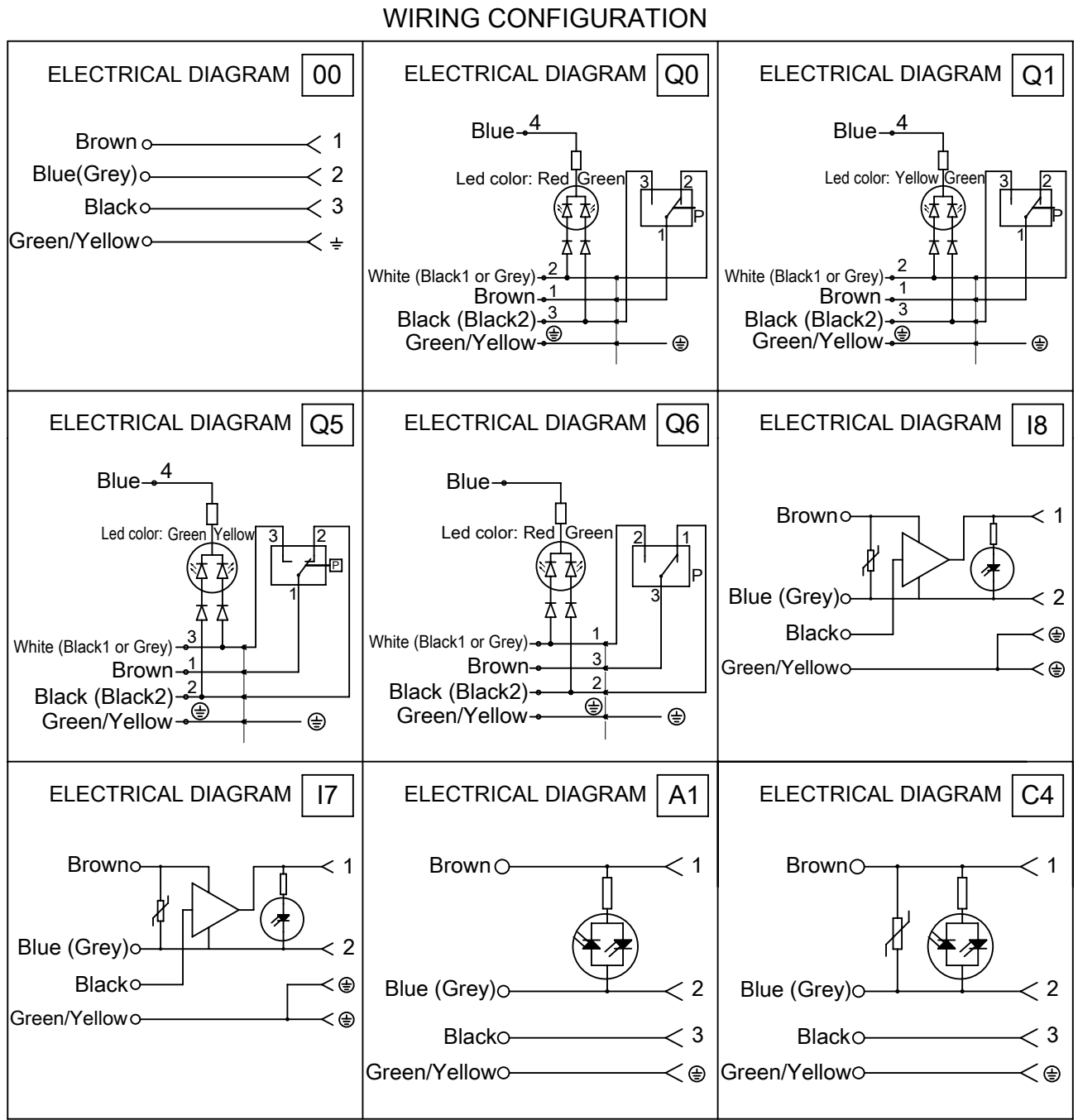


Table of length tolerances [mm]		
Over	Up to and including	Tolerance (+)
0	1000	±20
1000	3000	±30
3000	5000	±40
5000	10000	±50
10000	15000	±100
15000	20000	±150
20000		±L/100



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DIMENSION UNITS	SCALE	CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#515182
mm	NTS	
GENERAL TOLERANCES (UNLESS SPECIFIED)		
ANGULAR TOL	±	°
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	
1 PLACE	±	
0 PLACES	±	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

EC NO: 806192	2024/11/25
DRWN: MADHAM5	2024/12/09
CHK'D: GGA	2024/12/09
APPR: GGA	2024/12/09
INITIAL REVISION:	
DRWN: JMARSZALEK	2012/11/27
APPR: MIWASIECZKO	2013/02/12

THIRD ANGLE PROJECTION	DRAWING	SERIES
	A3-SIZE	121050

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-121050-006	PSD	001	D1

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE SHEET 2 & 4	GENERAL MARKET	1 OF 10

DOCUMENT STATUS

P1

RELEASE DATE

2024/12/09 11:41:37

FORMAT: master-b-prod-A3

REVISION: J1

DATE: 2021/05/01

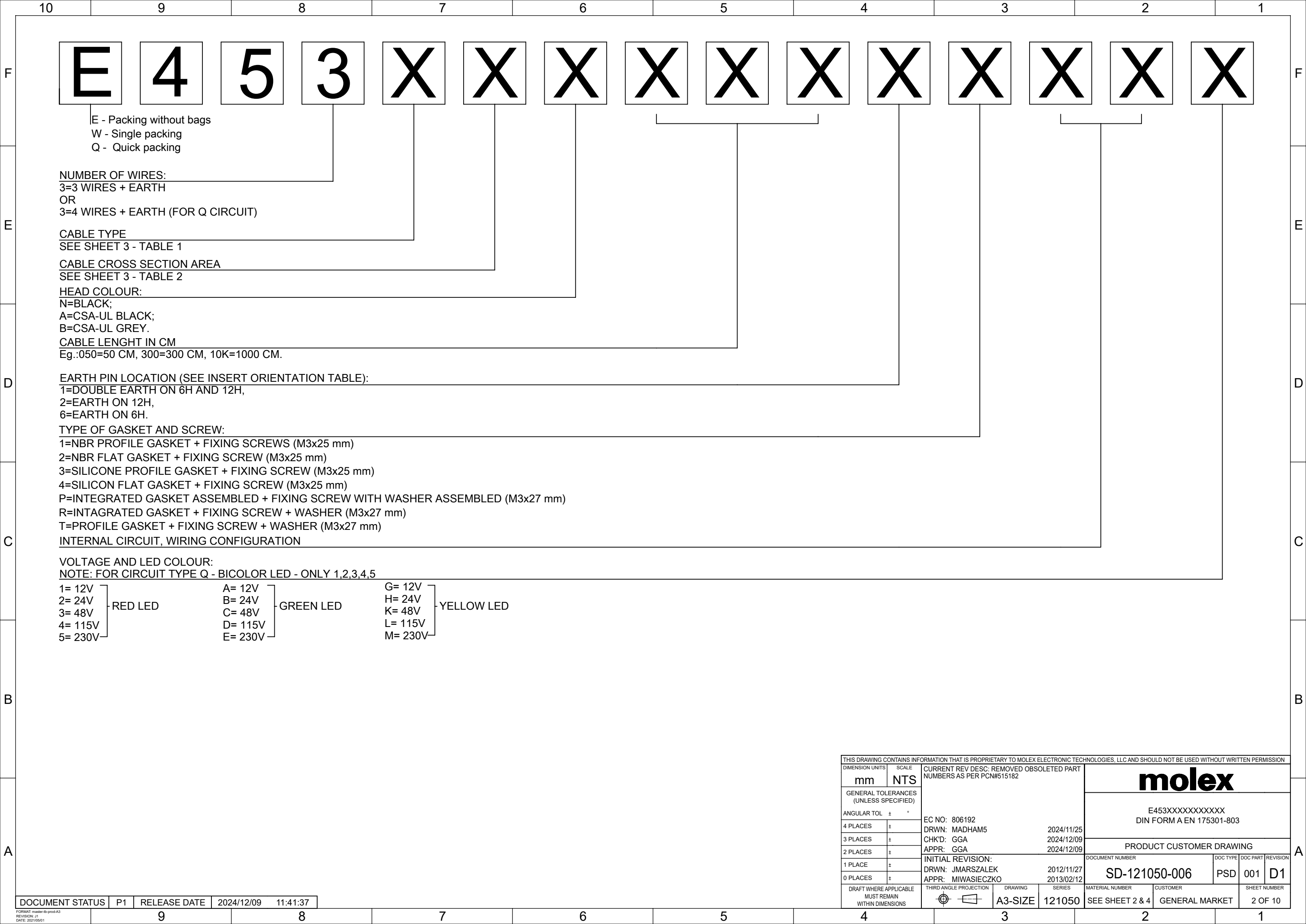


TABLE 2 - CABLES

Cable type	Cable code	Wires no.	Cross Section	Jacket material	Jacket color	Diameter Ø[mm]	Wire colors
I	0	3	1 mm²	PVC CEI 2022 II O.R.	Grey	7.6±0.2	BN, BU, GN/YE
A	2	2	20 AWG	PVC CSA/UL 2661	Black	5.4±0.2	BN, BU
A	2	3	20 AWG	PVC CSA/UL 2661	Black	5.6±0.2	BN, BU, GN/YE
A	2	4	20 AWG	PVC CSA/UL 2661	Black	6.2±0.25	BN, BU, BK, GN/YE
B	2	2	20 AWG	PUR CSA/UL 20668	Black	5.6±0.2	BN, BU
B	2	3	20 AWG	PUR CSA/UL 20668	Black	5.6±0.2	BN, BU, GN/YE
B	2	4	0.5 mm²	PUR CSA/UL 20668	Black	6.3±0.2	BN, BU, BK, GN/YE
D	2	3	0.5 mm²	PVC CEI 20-20	Grey	5.5+0.3/-0	BN, BU, GN/YE
I	2	2	0.5 mm²	PVC CEI 2022 II O.R.	Grey	5.5+0.3/-0	BN, BU
I	2	3	0.5 mm²	PVC CEI 2022 II O.R.	Grey	5.5+0.3/-0	BN, BU, GN/YE
I	2	4	0.5 mm²	PVC CEI 2022 II O.R.	Grey	6.5±0.2	BN, BU, BK, GN/YE
I	2	5	0.5 mm²	PVC CEI 2022 II O.R.	Grey	7.0+0.3/-0	BN, BU, BK, WH, GN/YE
N	2	2	0.5 mm²	PVC H03VV-F	Black	5.2±0.2	BN, BU
N	2	3	0.5 mm²	PVC H03VV-F	Black	5.5±0.2	BN, BU, GN/YE
N	2	4	0.5 mm²	PVC H03VV-F	Black	5.9±0.3	BN, BU, BK, GN/YE
P	2	2	0.5 mm²	PUR - BLEND	Black	5.5±0.2	BN, BU
P	2	3	0.5 mm²	PUR - BLEND	Black	5.5+0.3/-0	BN, BU, GN/YE
P	2	4	0.5 mm²	PUR - BLEND	Black	6.5±0.2	BN, BU, BK, GN/YE
P	2	5	0.5 mm²	PUR - BLEND	Black	7+0.3/-0.1	BN, BU, BK, WH, GN/YE
A	3	2	18 AWG	PVC CSA/UL 2661	Black	6.2±0.25	BN, BU
A	3	3	18 AWG	PVC CSA/UL 2661	Black	6.5±0.25	BN, BU, GN/YE
A	3	4	18 AWG	PVC CSA/UL 2661	Black	7.0+0.3/-0	BN, BU, BK, GN/YE
A	3	5	18 AWG	PVC CSA/UL 2661	Black	7.8±0.25	BN, BU, BK, WH, GN/YE
B	3	2	18 AWG	PUR CSA/UL 20668	Black	6.2±0.2	BN, BU
B	3	3	18 AWG	PUR CSA/UL 20668	Black	6.5±0.2	BN, BU, GN/YE
B	3	4	18 AWG	PUR CSA/UL 20668	Black	7±0.2	BN, BU, BK, GN/YE
B	3	5	18 AWG	PUR CSA/UL 20668	Black	7.8±0.25	BN, BU, BK, WH, GN/YE
D	3	3	0.75 mm²	PVC CEI 20-20	Grey	6.5±0.2	BN, BU, GN/YE
D	3	4	0.75 mm²	PVC CEI 20-20	Grey	7.1±0.2	BN, BU, BK, GN/YE
I	3	2	0.75 mm²	PVC CEI 2022 II O.R.	Grey	5.5±0.2	BK1, BK2
I	3	3	0.75 mm²	PVC CEI 2022 II O.R.	Grey	6.0±0.2	BK1, BK2, BK3
I	3	4	0.75 mm²	PVC CEI 2022 II O.R.	Grey	7.0±0.2	BN, BU, BK, GN/YE
N	3	2	0.75 mm²	PVC H05VV-F	Black	6.2±0.2	BN, BU
N	3	3	0.75 mm²	PVC H05VV-F	Black	6.5±0.2	BN, BU, GN/YE
N	3	4	0.75 mm²	PVC H05VV-F	Black	7.1±0.2	BN, BU, BK, GN/YE
N	3	5	0.75 mm²	PVC H05VV-F	Black	8.0+0.2/-0	BN, BU, BK, GY, GN/YE
P	3	2	0.75 mm²	PUR - BLEND	Black	6.5±0.2	BN, BU
P	3	3	0.75 mm²	PUR - BLEND	Black	6.5±0.2	BN, BU, GN/YE
P	3	4	0.75 mm²	PUR - BLEND	Black	7.0±0.2	BN, BU, BK, GN/YE

TABLE 2 - CABLES

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

A

Pos.	Molex PN:	Engineering No.:
561	2210508201	E453I2N15021I7M
562	2210508202	E453I2N15021Q01
563	2210508203	E453I2N15021Q02
564	2210508204	E453I2N15021Q03
565	2210508205	E453I2N15021Q04
566	2210508206	E453I2N15021Q05
567	2210508207	E453I2N15021Q0A
568	2210508208	E453I2N15021Q0B
569	2210508209	E453I2N15021Q0C
570	2210508210	E453I2N15021Q0D
571	2210508211	E453I2N15021Q0E
572	2210508212	E453I2N15021Q0G
573	2210508213	E453I2N15021Q0H
574	2210508214	E453I2N15021Q0K
575	2210508215	E453I2N15021Q0L
576	2210508216	E453I2N15021Q0M
577	2210508217	E453I2N20011000
578	2210508218	E453I2N20021I71
579	2210508219	E453I2N20021I72
580	2210508220	E453I2N20021I73
581	2210508221	E453I2N20021I74
582	2210508222	E453I2N20021I75
583	2210508223	E453I2N20021I7A
584	2210508224	E453I2N20021I7B
585	2210508225	E453I2N20021I7C
586	2210508226	E453I2N20021I7D
587	2210508227	E453I2N20021I7E
588	2210508228	E453I2N20021I7G
589	2210508229	E453I2N20021I7H
590	2210508230	E453I2N20021I7K
591	2210508231	E453I2N20021I7L
592	2210508232	E453I2N20021I7M
593	2210508233	E453I2N20021Q01
594	2210508234	E453I2N20021Q02
595	2210508235	E453I2N20021Q03
596	2210508236	E453I2N20021Q04
597	2210508237	E453I2N20021Q05
598	2210508238	E453I2N20021Q0A
599	2210508239	E453I2N20021Q0B
600	2210508240	E453I2N20021Q0C

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THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													
DRAWING UNITS		SCALE		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#515182				molex E453XXXXXXXXXXXX DIN FORM A EN 175301-803					
mm		NTS											
GENERAL TOLERANCES (UNLESS SPECIFIED)				ANGULAR TOL ± °				EC NO: 806192 DRWN: MADHAM5					

	10	9	8	7	6	5	4	3	2	1					
F	TABLE 3 - PART LIST										F				
E	Pos.	Molex PN:	Engineering No.:	Pos.	Molex PN:	Engineering No.:	Pos.	Molex PN:	Engineering No.:	Pos.	Molex PN:	Engineering No.:	E		
	1001	2210508641	E453N3N10K21Q0B	1041	2210508681 VO	E453N3N20011000	1081	2210508721 VO	E453N3N30021I7D	1121	2210508761 VO	E453N3N50021Q04	1161	2210508801	E453P2N10K21Q0L
	1002	2210508642	E453N3N10K21Q0C	1042	2210508682 VO	E453N3N20021I71	1082	2210508722 VO	E453N3N30021I7E	1122	2210508762 VO	E453N3N50021Q05	1162	2210508802	E453P2N10K21Q0M
	1003	2210508643	E453N3N10K21Q0D	1043	2210508683 VO	E453N3N20021I72	1083	2210508723 VO	E453N3N30021I7G	1123	2210508763 VO	E453N3N50021Q0A	1163	2210508803	E453P2N15021Q01
	1004	2210508644	E453N3N10K21Q0E	1044	2210508684 VO	E453N3N20021I73	1084	2210508724 VO	E453N3N30021I7H	1124	2210508764	E453N3N50021Q0B	1164	2210508804	E453P2N15021Q02
	1005	2210508645	E453N3N10K21Q0G	1045	2210508685 VO	E453N3N20021I74	1085	2210508725 VO	E453N3N30021I7K	1125	2210508765 VO	E453N3N50021Q0C	1165	2210508805	E453P2N15021Q03
	1006	2210508646	E453N3N10K21Q0H	1046	2210508686 VO	E453N3N20021I75	1086	2210508726 VO	E453N3N30021I7L	1126	2210508766 VO	E453N3N50021Q0D	1166	2210508806	E453P2N15021Q04
	1007	2210508647	E453N3N10K21Q0K	1047	2210508687 VO	E453N3N20021I7A	1087	2210508727 VO	E453N3N30021I7M	1127	2210508767 VO	E453N3N50021Q0E	1167	2210508807	E453P2N15021Q05
	1008	2210508648	E453N3N10K21Q0L	1048	2210508688 VO	E453N3N20021I7B	1088	2210508728 VO	E453N3N30021Q01	1128	2210508768 VO	E453N3N50021Q0G	1168	2210508808	E453P2N15021Q0A
	1009	2210508649	E453N3N10K21Q0M	1049	2210508689 VO	E453N3N20021I7C	1089	2210508729 VO	E453N3N30021Q03	1129	2210508769 VO	E453N3N50021Q0H	1169	2210508809	E453P2N15021Q0B
D	1010	2210508650	E453N3N15011000	1050	2210508690 VO	E453N3N20021I7D	1090	2210508730 VO	E453N3N30021Q04	1130	2210508770 VO	E453N3N50021Q0K	1170	2210508810	E453P2N15021Q0C
	1011	2210508651	E453N3N15021I71	1051	2210508691 VO	E453N3N20021I7E	1091	2210508731 VO	E453N3N30021Q05	1131	2210508771 VO	E453N3N50021Q0L	1171	2210508811	E453P2N15021Q0D
	1012	2210508652	E453N3N15021I72	1052	2210508692 VO	E453N3N20021I7G	1092	2210508732 VO	E453N3N30021Q0A	1132	2210508772 VO	E453N3N50021Q0M	1172	2210508812	E453P2N15021Q0E
	1013	2210508653	E453N3N15021I73	1053	2210508693 VO	E453N3N20021I7H	1093	2210508733 VO	E453N3N30021Q0B	1133	2210508773 VO	E453P2N10021Q01	1173	2210508813	E453P2N15021Q0G
	1014	2210508654	E453N3N15021I74	1054	2210508694 VO	E453N3N20021I7K	1094	2210508734 VO	E453N3N30021Q0C	1134	2210508774 VO	E453P2N10021Q02	1174	2210508814	E453P2N15021Q0H
	1015	2210508655	E453N3N15021I75	1055	2210508695 VO	E453N3N20021I7L	1095	2210508735 VO	E453N3N30021Q0D	1135	2210508775 VO	E453P2N10021Q03	1175	2210508815	E453P2N15021Q0K
	1016	2210508656	E453N3N15021I7A	1056	2210508696 VO	E453N3N20021I7M	1096	2210508736 VO	E453N3N30021Q0E	1136	2210508776 VO	E453P2N10021Q04	1176	2210508816	E453P2N15021Q0L
	1017	2210508657	E453N3N15021I7B	1057	2210508697 VO	E453N3N20021Q01	1097	2210508737 VO	E453N3N30021Q0G	1137	2210508777 VO	E453P2N10021Q05	1177	2210508817	E453P2N15021Q0M
	1018	2210508658	E453N3N15021I7C	1058	2210508698 VO	E453N3N20021Q02	1098	2210508738 VO	E453N3N30021Q0H	1138	2210508778 VO	E453P2N10021Q0A	1178	2210508818	E453P2N20021Q01
	1019	2210508659	E453N3N15021I7D	1059	2210508699 VO	E453N3N20021Q03	1099	2210508739 VO	E453N3N30021Q0K	1139	2210508779 VO	E453P2N10021Q0B	1179	2210508819 VO	E453P2N20021Q02
C	1020	2210508660	E453N3N15021I7E	1060	2210508700 VO	E453N3N20021Q04	1100	2210508740 VO	E453N3N30021Q0L	1140	2210508780 VO	E453P2N10021Q0C	1180	2210508820	E453P2N20021Q03
	1021	2210508661	E453N3N15021I7G	1061	2210508701 VO	E453N3N20021Q05	1101	2210508741 VO	E453N3N30021Q0M	1141	2210508781 VO	E453P2N10021Q0D	1181	2210508821	E453P2N20021Q04
	1022	2210508662	E453N3N15021I7H	1062	2210508702 VO	E453N3N20021Q0A	1102	2210508742 VO	E453N3N50011000	1142	2210508782 VO	E453P2N10021Q0E	1182	2210508822	E453P2N20021Q05
	1023	2210508663	E453N3N15021I7K	1063	2210508703 VO	E453N3N20021Q0B	1103	2210508743 VO	E453N3N50021I71	1143	2210508783 VO	E453P2N10021Q0G	1183	2210508823	E453P2N20021Q0A
	1024	2210508664	E453N3N15021I7L	1064	2210508704 VO	E453N3N20021Q0C	1104	2210508744 VO	E453N3N50021I72	1144	2210508784 VO	E453P2N10021Q0H	1184	2210508824	E453P2N20021Q0B
	1025	2210508665	E453N3N15021I7M	1065	2210508705 VO	E453N3N20021Q0D	1105	2210508745 VO	E453N3N50021I73	1145	2210508785 VO	E453P2N10021Q0K	1185	2210508825	E453P2N20021Q0C
	1026	2210508666	E453N3N15021Q01	1066	2210508706 VO	E453N3N20021Q0E	1106	2210508746 VO	E453N3N50021I74	1146	2210508786 VO	E453P2N10021Q0L	1186	2210508826	E453P2N20021Q0D
	1027	2210508667 VO	E453N3N15021Q02	1067	2210508707 VO	E453N3N20021Q0G	1107	2210508747 VO	E453N3N50021I75	1147	2210508787 VO	E453P2N10021Q0M	1187	2210508827	E453P2N20021Q0E
	1028	2210508668 VO	E453N3N15021Q03	1068	2210508708 VO	E453N3N20021Q0H	1108	2210508748 VO	E453N3N50021I7A	1148	2210508788 VO	E453P2N10K21Q01	1188	2210508828	E453P2N20021Q0G
	1029	2210508669 VO	E453N3N15021Q04	1069	2210508709 VO	E453N3N20021Q0K	1109	2210508749 VO	E453N3N50021I7B	1149	2210508789 VO	E453P2N10K21Q02	1189	2210508829	E453P2N20021Q0H
B	1030	2210508670 VO	E453N3N15021Q05	1070	2210508710 VO	E453N3N20021Q0L	1110	2210508750 VO	E453N3N50021I7C	1150	2210508790 VO	E453P2N10K21Q03	1190	2210508830	E453P2N20021Q0K
	1031	2210508671 VO	E453N3N15021Q0A	1071	2210508711 VO	E453N3N20021Q0M	1111	2210508751 VO	E453N3N50021I7D	1151	2210508791 VO	E453P2N10K21Q04	1191	2210508831	E453P2N20021Q0L
	1032	2210508672 VO	E453N3N15021Q0B	1072	2210508712 VO	E453N3N30011000	1112	2210508752 VO	E453N3N50021I7E	1152	2210508792 VO	E453P2N10K21Q05	1192	2210508832	E453P2N20021Q0M
	1033	2210508673 VO	E453N3N15021Q0C	1073	2210508713 VO	E453N3N30021I71	1113	2210508753 VO	E453N3N50021I7G	1153	2210508793 VO	E453P2N10K21Q0A	1193	2210508833	E453P2N30021Q03
	1034	2210508674 VO	E453N3N15021Q0D	1074	2210508714 VO	E453N3N30021I72	1114	2210508754 VO	E453N3N50021I7H	1154	2210508794 VO	E453P2N10K21Q0B	1194	2210508834	E453P2N30021Q04
	1035	2210508675 VO	E453N3N15021Q0E	1075	2210508715 VO	E453N3N30021I73	1115	2210508755 VO	E453N3N50021I7K	1155	2210508795 VO	E453P2N10K21Q0C	1195	2210508835	E453P2N30021Q05
	1036	2210508676 VO	E453N3N15021Q0G	1076	2210508716 VO	E453N3N30021I74	1116	2210508756 VO	E453N3N50021I7L	1156	2210508796 VO	E453P2N10K21Q0D	1196	2210508836	E453P2N30021Q0A
	1037	2210508677 VO	E453N3N15021Q0H	1077	2210508717 VO	E453N3N30021I75	1117	2210508757 VO	E453N3N50021I7M	1157	2210508797	E453P2N10K21Q0E	1197	2210508837	E453P2N30021Q0B
	1038	2210508678 VO	E453N3N15021Q0K	1078	2210508718 VO	E453N3N30021I7A	1118	2210508758 VO	E453N3N50021Q01	1158	2210508798	E453P2N10K21Q0G	1198	2210508838	E453P2N30021Q0C
	1039	2210508679 VO	E453N3N15021Q0L	1079	2210508719 VO	E453N3N30021I7B	1119	2210508759 VO	E453N3N50021Q02	1159	2210508799	E453P2N10K21Q0H	1199	2210508839	E453P2N30021Q0D
A	1040	2210508680 VO	E453N3N15021Q0M	1080	2210508720 VO	E453N3N30021I7C	1120	2210508760 VO	E453N3N50021Q03	1160	2210508800	E453P2N10K21Q0K	1200	2210508840	E453P2N30021Q0E
													B		
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 GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± ° 4 PLACES ± 3 PLACES ± 2 PLACES ± 1 PLACE ± 0 PLACES ±															

TABLE 3 - PART LIST

Pos.	Mollex PN:	Engineering No.:
1201	2210508841	E453P2N30021Q0G
1202	2210508842	E453P2N30021Q0H
1203	2210508843	E453P2N30021Q0K
1204	2210508844	E453P2N30021Q0L
1205	2210508845	E453P2N30021Q0M
1206	2210508846	E453P2N50021Q01
1207	2210508847	E453P2N50021Q03
1208	2210508848	E453P2N50021Q04
1209	2210508849	E453P2N50021Q05
1210	2210508850	E453P2N50021Q0A
1211	2210508851	E453P2N50021Q0B
1212	2210508852	E453P2N50021Q0C
1213	2210508853	E453P2N50021Q0D
1214	2210508854	E453P2N50021Q0E
1215	2210508855	E453P2N50021Q0G
1216	2210508856	E453P2N50021Q0H
1217	2210508857	E453P2N50021Q0K
1218	2210508858	E453P2N50021Q0L
1219	2210508859	E453P2N50021Q0M
1220	2210508860	E453P3N10011000
1221	2210508861	E453P3N10021I71
1222	2210508862	E453P3N10021I72
1223	2210508863	E453P3N10021I73
1224	2210508864	E453P3N10021I74
1225	2210508865	E453P3N10021I75
1226	2210508866	E453P3N10021I7A
1227	2210508867	E453P3N10021I7B
1228	2210508868	E453P3N10021I7C
1229	2210508869	E453P3N10021I7D
1230	2210508870	E453P3N10021I7E
1231	2210508871	E453P3N10021I7G
1232	2210508872	E453P3N10021I7H
1233	2210508873	E453P3N10021I7K
1234	2210508874	E453P3N10021I7L
1235	2210508875	E453P3N10021I7M
1236	2210508876	E453P3N10K11000
1237	2210508877	E453P3N10K21I71
1238	2210508878	E453P3N10K21I72
1239	2210508879	E453P3N10K21I73
1240	2210508880	E453P3N10K21I74

Pos.	Molex PN:	Engineering No.:
1241	2210508881	E453P3N10K21I75
1242	2210508882	E453P3N10K21I7A
1243	2210508883	E453P3N10K21I7B
1244	2210508884	E453P3N10K21I7C
1245	2210508885	E453P3N10K21I7D
1246	2210508886	E453P3N10K21I7E
1247	2210508887	E453P3N10K21I7G
1248	2210508888	E453P3N10K21I7H
1249	2210508889	E453P3N10K21I7K
1250	2210508890	E453P3N10K21I7L
1251	2210508891	E453P3N10K21I7M
1252	2210508892	E453P3N15011000
1253	2210508893	E453P3N15021I71
1254	2210508894	E453P3N15021I72
1255	2210508895	E453P3N15021I73
1256	2210508896	E453P3N15021I74
1257	2210508897	E453P3N15021I75
1258	2210508898	E453P3N15021I7A
1259	2210508899	E453P3N15021I7B
1260	2210508900	E453P3N15021I7C
1261	2210508901	E453P3N15021I7D
1262	2210508902	E453P3N15021I7E
1263	2210508903	E453P3N15021I7G
1264	2210508904	E453P3N15021I7H
1265	2210508905	E453P3N15021I7K
1266	2210508906	E453P3N15021I7L
1267	2210508907	E453P3N15021I7M
1268	2210508908	E453P3N20011000
1269	2210508909	E453P3N20021I71
1270	2210508910	E453P3N20021I72
1271	2210508911	E453P3N20021I73
1272	2210508912	E453P3N20021I74
1273	2210508913	E453P3N20021I75
1274	2210508914	E453P3N20021I7A
1275	2210508915	E453P3N20021I7B
1276	2210508916	E453P3N20021I7C
1277	2210508917	E453P3N20021I7D
1278	2210508918	E453P3N20021I7E
1279	2210508919	E453P3N20021I7G
1280	2210508920	E453P3N20021I7H

Pos.	Molex PN:	Engineering No.:
1281	2210508921	E453P3N2002117K
1282	2210508922	E453P3N2002117L
1283	2210508923	E453P3N2002117M
1284	2210508924	E453P3N30011000
1285	2210508925	E453P3N30021171
1286	2210508926	E453P3N30021172
1287	2210508927	E453P3N30021173
1288	2210508928	E453P3N30021174
1289	2210508929	E453P3N30021175
1290	2210508930	E453P3N3002117A
1291	2210508931	E453P3N3002117B
1292	2210508932	E453P3N3002117C
1293	2210508933	E453P3N3002117D
1294	2210508934	E453P3N3002117E
1295	2210508935	E453P3N3002117G
1296	2210508936	E453P3N3002117H
1297	2210508937	E453P3N3002117K
1298	2210508938	E453P3N3002117L
1299	2210508939	E453P3N3002117M
1300	2210508940	E453P3N50011000
1301	2210508941	E453P3N50021171
1302	2210508942	E453P3N50021172
1303	2210508943	E453P3N50021173
1304	2210508944	E453P3N50021174
1305	2210508945	E453P3N50021175
1306	2210508946	E453P3N5002117A
1307	2210508947	E453P3N5002117B
1308	2210508948	E453P3N5002117C
1309	2210508949	E453P3N5002117D
1310	2210508950	E453P3N5002117E
1311	2210508951	E453P3N5002117G
1312	2210508952	E453P3N5002117H
1313	2210508953	E453P3N5002117K
1314	2210508954	E453P3N5002117L
1315	2210508955	E453P3N5002117M
1316	1210500877	E453P2G50062Q02
1317	1210503525	E453P2N15K61Q12
1318	1210503585	E453B3A3002PQ02

[illegible][illegible]

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#515182			molex								
mm		NTS													
GENERAL TOLERANCES (UNLESS SPECIFIED)							E453XXXXXXXXXXXX DIN FORM A EN 175301-803								
ANGULAR TOL ± °															
4 PLACES		±					PRODUCT CUSTOMER DRAWING								
3 PLACES		±													
2 PLACES		±		DOCUMENT NUMBER			DOC TYPE		DOC PART		REVISION				
1 PLACE		±													
0 PLACES		±		SD-121050-006			PSD		001		D1				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
						A3-SIZE		121050		SEE SHEET 2 & 4		GENERAL MARKET		10 OF 10	
				EC NO: 806192		2024/11/25		DRWN: MADHAM5		2024/12/09		CHK'D: GGA		2024/12/09	
				INITIAL REVISION:											
				DRWN: JMARSZALEK		2012/11/27									
				APPR: MIWASIECZKO		2013/02/12									

DOCUMENT STATUS	P1	RELEASE DATE	2024/12/09	11:41:37
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