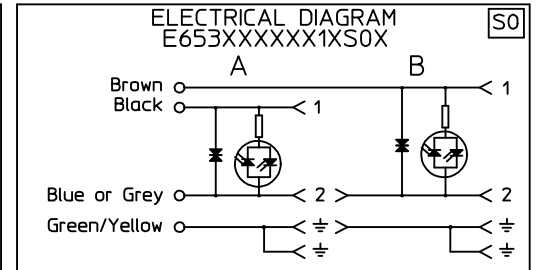
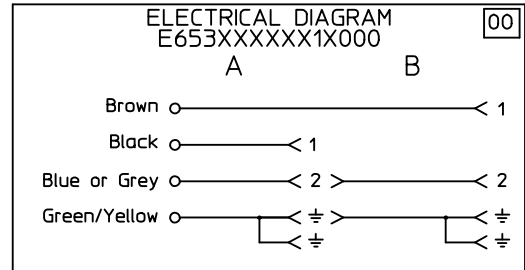
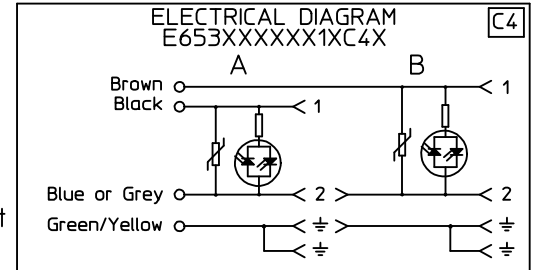
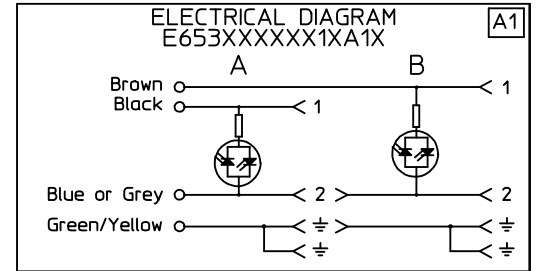
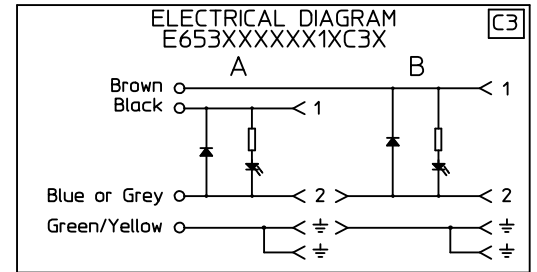


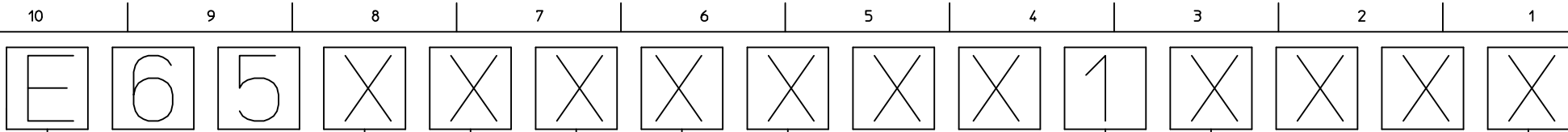
Table of length tolerances [mm]

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

NOTE: Ground on schematics does not apply to E652XXXXXX1XXXX



<p>DRAWING UPDATE EC NO: IPG2013-1505 DRWIN: JMARSZALEK 2013/03/28 CHKD: CHYKO APPR: MIWASIECZKO 2013/04/02</p>	<p>QUALITY SYMBOLS ▽=0 ◻=0</p>	<p>GENERAL TOLERANCES (UNLESS SPECIFIED)</p>		<p>DIMENSION STYLE MM ONLY</p>		SCALE	DESIGN UNITS	<p>FIRST ANGLE PROJECTION</p>
		mm	INCH	DRAWN BY	DATE	TITLE	<p>E65XXXXXX1XXXX DUAL DIN FORM A</p>	
		4 PLACES ± --- ± ---		JMARSZALEK	2013/01/16			
		3 PLACES ± --- ± ---		CHECKED BY	DATE			
2 PLACES ± --- ± ---		MSZWAJKOWSKI	2013/01/16					
1 PLACE ± --- ± ---		APPROVED BY	DATE					
0 PLACE ± --- ± ---		MIWASIECZKO	2013/02/12					
		ANGULAR ± --- °		MATERIAL NO.		DOCUMENT NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 2&3		SD-121055-001		SHEET NO. 1 OF 4
				SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		



E - Packing without bags  
 W - Single packing  
 Q - Quick packing

NUMBER OF WIRES:  
 2=2 POLES  
 3=2 POLES+GROUND

CABLE TYPE  
 SEE TABLE 1

CABLE CROSS SECTION AREA  
 SEE TABLE 2

HEAD COLOUR:  
 G=GREY  
 N=BLACK  
 T=TRANSPARENT  
 A=CSA-UL BLACK  
 B=CSA-UL GREY

CABLE LENGTH IN CM BETWEN 2 MOULDINGS (L1)  
 Eg.:050=50 CM, 300=300 CM, 10K=1000 CM

EARTH PIN LOCATION:  
 1=DOUBLE EARTH ON 6H AND 12H,

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 (M3x27 mm).
- R=INTAGRATED GASKET + FIXING SCREW + GROMMET (M3x27 mm).
- T=PROFILE GASKET + FIXING SCREW + GROMMET (M3x27 mm).

INTERNAL CIRCUIT  
 WIRING CONFIGURATION

VOLTAGE AND LED COLOUR:

- |         |         |         |
|---------|---------|---------|
| 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 |
- RED LED      GREEN LED      YELLOW LED

CABLE LENGHT IN METERS (L)

- A=1
- B=1,5
- C=2
- D=2,5
- E=3
- F=3,5
- G=4
- H=4,5
- L=5
- M=5,5
- N=6
- P=6,5
- Q=7
- R=7,5
- S=8
- T=8,5
- U=9
- K=10

<b>DRAWING UPDATE</b> EC NO: IPG2013-1505 DRWN: JMARSZALEK 2013/03/28 CHKD: APPR: MIWASIECZKO 2013/04/02	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE <b>MM ONLY</b>	SCALE <b>1:1</b>	DESIGN UNITS <b>METRIC</b>	FIRST ANGLE PROJECTION																																					
	=0 =0	<table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> </thead> <tbody> <tr> <td>4 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>3 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>2 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>1 PLACE</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>0 PLACE</td> <td>± ---</td> <td>± ---</td> </tr> </tbody> </table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± ---	± ---	1 PLACE	± ---	± ---	0 PLACE	± ---	± ---	<table border="1"> <thead> <tr> <th colspan="2">DRAWN BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td colspan="2">JMARSZALEK</td> <td>2013/01/16</td> </tr> <tr> <th colspan="2">CHECKED BY</th> <th>DATE</th> </tr> <tr> <td colspan="2">MSZWAJKOWSKI</td> <td>2013/01/16</td> </tr> <tr> <th colspan="2">APPROVED BY</th> <th>DATE</th> </tr> <tr> <td colspan="2">MIWASIECZKO</td> <td>2013/02/12</td> </tr> </tbody> </table>	DRAWN BY		DATE	JMARSZALEK		2013/01/16	CHECKED BY		DATE	MSZWAJKOWSKI		2013/01/16	APPROVED BY		DATE	MIWASIECZKO		2013/02/12	TITLE	E65XXXXXXXX1XXXX DUAL DIN FORM A		
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TABLE 2 - CABLES

Mollex 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	5,5±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	5,5±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.	-
1202098206	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.	-

TABLE 2 - CABLES

Mollex 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

DRAWING UPDATE  
EC NO: IPG2013-1505  
DRWN: JMARSZALEK 2013/03/28  
CHKD:  
APPR: MIWASIECZKO 2013/04/02

QUALITY SYMBOLS  
▽=0  
◻=0

GENERAL TOLERANCES (UNLESS SPECIFIED)  
mm INCH  
4 PLACES ± --- ± ---  
3 PLACES ± --- ± ---  
2 PLACES ± --- ± ---  
1 PLACE ± --- ± ---  
0 PLACE ± --- ± ---  
ANGULAR ± --- °  
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE  
MM ONLY  
DRAWN BY DATE  
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CHECKED BY DATE  
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MIWASIECZKO 2013/02/12  
MATERIAL NO.  
SEE SHEET 2&3

SCALE 1:1  
DESIGN UNITS METRIC  
FIRST ANGLE PROJECTION  
TITLE  
E65XXXXXXXX1XXXX  
DUAL DIN FORM A  
molex  
DOCUMENT NO. SD-121055-001  
SHEET NO. 3 OF 4  
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