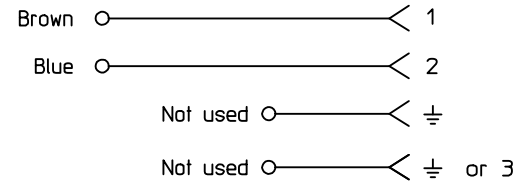


WIRING CONFIGURATION



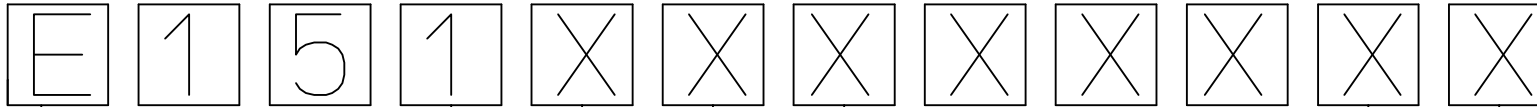
Insert Orientation

Earth PIN H6/H12 E151XXXXXX1X EART PIN Not Used		Earth PIN H3/H9 E151XXXXXX4X EART PIN Not Used	
Earth PIN H12 E151XXXXXX2X EART PIN Not Used PIN 3 Not Used		Earth PIN H3 E151XXXXXX3X EART PIN Not Used PIN 3 Not Used	
Earth PIN H6 E151XXXXXX6X EART PIN Not Used PIN 3 Not Used		Earth PIN H9 E151XXXXXX9X EART PIN Not Used PIN 3 Not Used	

Table of lenght tolerances [mm]

Over	Up to and including	Tolerance (+)
0	1000	±20
1000	3000	±30
3000	5000	±40
5000	10000	±50
10000	15000	±100
15000	20000	±150
20000		±L/100

ORIGINAL RELEASE EC NO: IPG2013-1033 DRWN: JMARSZALEK 2012/12/19 CHKD: MSZWAJKOWSKI 2012/12/19 APPR: MIWASIECZKO 2013/01/16	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± --- ANGULAR ± --- °	DIMENSION STYLE MM ONLY DRAWN BY: JMARSZALEK DATE: 2012/12/19 CHECKED BY: MSZWAJKOWSKI DATE: 2012/12/19 APPROVED BY: MIWASIECZKO DATE: 2013/01/16	SCALE: - DESIGN UNITS: METRIC FIRST ANGLE PROJECTION
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO.: MATRIX DRAWING	TITLE: E151XXXXXXXXX DIN FORM A EN 175301-803 molex	DOCUMENT NO.: SD-121040-007 SHEET NO.: 1 OF 3
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
	SIZE: A3			



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 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  
 Eg.:050=50 CM, 300=300 CM, 10K=1000 CM.

EARTH PIN LOCATION (SEE INSERT ORIENTATION TABLE):  
 1=DOUBLE EARTH ON 6H AND 12H,  
 2=EARTH ON 12H,  
 6=EARTH ON 6H,  
 4=DOUBLE EARTH ON 3H AND 9H,  
 3=EARTH ON 3H,  
 9=EARTH ON 9H.

TYPE OF GASKET AND SCREW:  
 1=NBR PROFILE GASKET+FIXING SCREWS (M3x25 mm).  
 2=NBR FLAT GASKET+SCREW (M3x25 mm).  
 3=SILICONE PROFILE GASKET+SCREW (M3x25 mm).  
 4=SILICON FLAT GASKET+SCREW (M3x25 mm).  
 P=INTEGRATED GASKET+FIXING SCREW+GROMMET (M3x27 mm).  
 R=INTEGRATED GASKET+SCREW+GROMMET (M3x27 mm).  
 T=PROFILE GASKET+SCREW+GROMMET (M3x27 mm).

ORIGINAL RELEASE EC NO: IPG2013-1033 DRWN: JMARSZALEK 2012/12/19 CHKD: MSZWAJKOWSKI 2012/12/19 APPR: MIWASIECZKO 2013/01/16	REV A	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE	DESIGN UNITS	FIRST ANGLE PROJECTION
			▼=0 ◻=0		MM ONLY		-	METRIC	
					mm	INCH	DRAWN BY DATE		
					4 PLACES ± --- ± ---	JMARSZALEK 2012/12/19	TITLE		
					3 PLACES ± --- ± ---	2012/12/19	E151XXXXXXXXX DIN FORM A EN 175301-803		
	2 PLACES ± --- ± ---	MSZWAJKOWSKI 2012/12/19	APPROVED BY DATE						
	1 PLACE ± --- ± ---	MIWASIECZKO 2013/01/16	MATERIAL NO.						
	0 PLACE ± --- ± ---		DOCUMENT NO.						
	ANGULAR ± --- °		SD-121040-007						
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SHEET NO. 2 OF 3						
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

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	5,5+/-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+/-0,2 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	5,5+/-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	5,5+0,3/-0 mm	OK.	OK.
1210180148	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	5,1+ 0,2-0 mm	OK.	OK.
1210180064	N	2	3	0,5 mm2	PVCH03	Black	5,4+ 0,2-0 mm	OK.	OK.
1210180153	N	2	4	0,5 mm2	PVCH03	Black	5,75+0,2-0 mm	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+/-0,2 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+/-0,2 mm	OK.	-
1210180129	A	3	3	18 AWG	PVC CSA/UL 2661	Black	6,5+/-0,2 mm	OK.	-
1210180159	A	3	4	18 AWG	PVC CSA/UL 2661	Black	7+/-0,2 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	6,5+/-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

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/-0 mm	OK.	-
1210180082	N	4	3	1 mm2	PVCH05	Black	6,9+0,2/-0 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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		<table border="1"> <tr> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES ± --- ± ---</td> <td></td> </tr> <tr> <td>3 PLACES ± --- ± ---</td> <td></td> </tr> <tr> <td>2 PLACES ± --- ± ---</td> <td></td> </tr> <tr> <td>1 PLACE ± --- ± ---</td> <td></td> </tr> <tr> <td>0 PLACE ± --- ± ---</td> <td></td> </tr> </table>		mm	INCH	4 PLACES ± --- ± ---		3 PLACES ± --- ± ---		2 PLACES ± --- ± ---		1 PLACE ± --- ± ---		0 PLACE ± --- ± ---		DRAWN BY DATE JMARSZALEK 2012/12/19		TITLE E151XXXXXXXXX DIN FORM A EN 175301-803			
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ANGULAR ± --- °		CHECKED BY DATE MSZWAJKOWSKI 2012/12/19		 DOCUMENT NO. SD-121040-007 SHEET NO. 3 OF 3																	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPROVED BY DATE MIWASIECZKO 2013/01/16																			
MATERIAL NO.		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																	