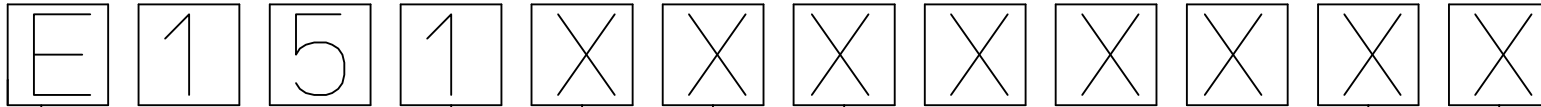


Earth PIN H6/H12 E151XXXXXX1X EART PIN Not Used		Earth PIN H3/H9 E151XXXXXX4X EART PIN Not Used	
Earth PIN H12 E151XXXXXX2X EART PIN Not Used PIN 3 Not Used		Earth PIN H3 E151XXXXXX3X EART PIN Not Used PIN 3 Not Used	
Earth PIN H6 E151XXXXXX6X EART PIN Not Used PIN 3 Not Used		Earth PIN H9 E151XXXXXX9X 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)		DIMENSION STYLE MM ONLY		SCALE -	DESIGN UNITS METRIC	FIRST ANGLE PROJECTION		
		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				
		ANGULAR ± --- °		CHECKED BY DATE MSZWAJKOWSKI 2012/12/19		MATERIAL NO. MIWASIECZKO 2013/01/16				
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPROVED BY DATE MIWASIECZKO 2013/01/16		DOCUMENT NO. SD-121040-007			SHEET NO. 1 OF 3	



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 METRIC	FIRST ANGLE PROJECTION			
			▼=0 ◻=0		mm	INCH				DRAWN BY	DATE	TITLE
					4 PLACES ± --- ± ---	JMARSZALEK				2012/12/19	E151XXXXXXXXX DIN FORM A EN 175301-803 <b>molex</b>	
					3 PLACES ± --- ± ---	CHECKED BY				DATE		
					2 PLACES ± --- ± ---	MSZWAJKOWSKI				2012/12/19		
	1 PLACE ± --- ± ---	APPROVED BY	DATE									
	0 PLACE ± --- ± ---	MIWASIECZKO	2013/01/16									
		ANGULAR ± --- °	MATERIAL NO.	DOCUMENT NO.	SHEET NO.							
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SIZE A3	MATRIX DRAWING	SD-121040-007	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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		mm		INCH		DRAWN BY JMARSZALEK		DATE 2012/12/19		E151XXXXXXXXX DIN FORM A EN 175301-803 <b>molex</b> SD-121040-007 3 OF 3
		4 PLACES ± --- ± ---		3 PLACES ± --- ± ---		CHECKED BY MSZWAJKOWSKI		DATE 2012/12/19		
		2 PLACES ± --- ± ---		1 PLACE ± --- ± ---		APPROVED BY MIWASIECZKO		DATE 2013/01/16		
0 PLACE ± --- ± ---		ANGULAR ± --- °		MATERIAL NO.		DOCUMENT NO.				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				MATRIX DRAWING		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				