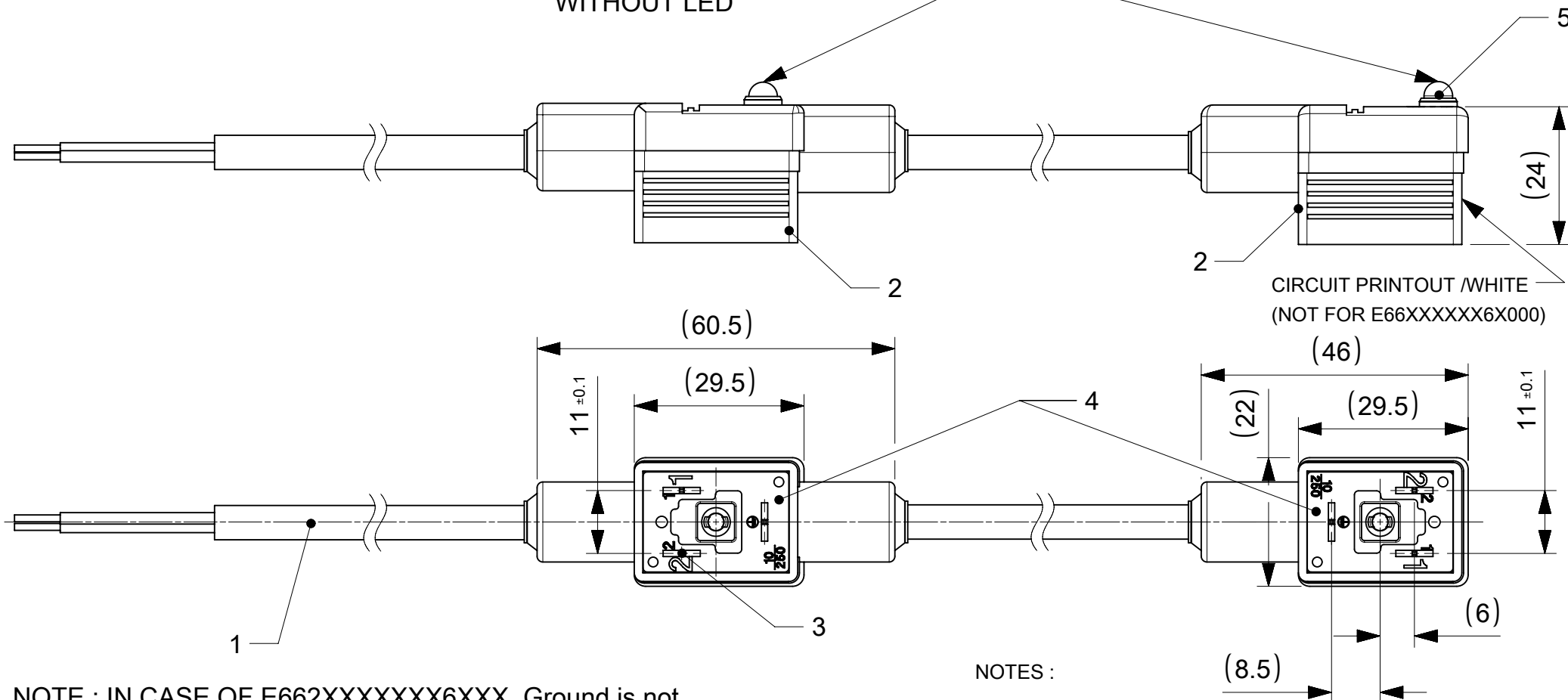
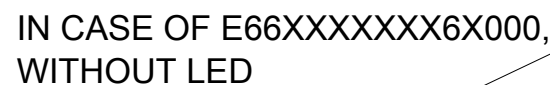
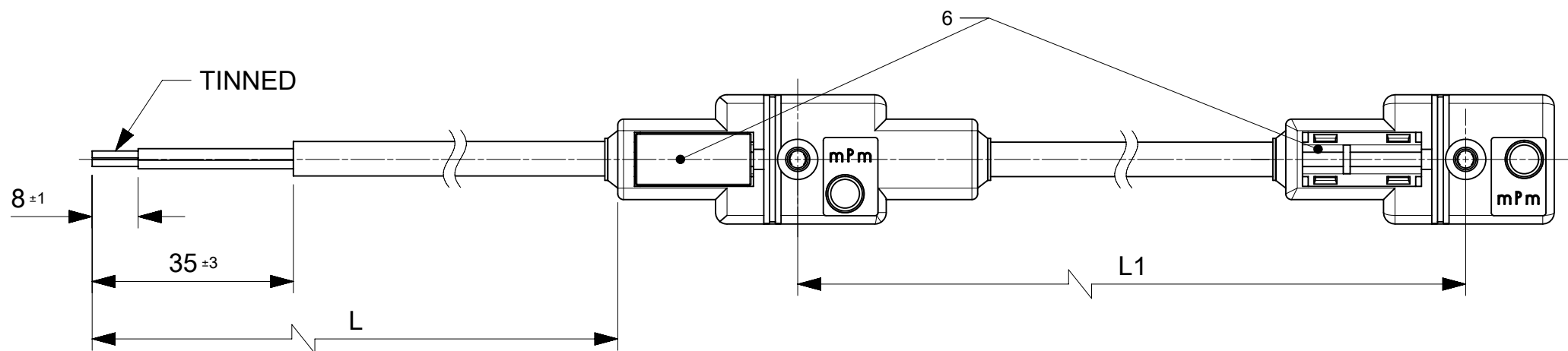


The Drawing Replaces SD-121055-002



NOTE : IN CASE OF E662XXXXXX6XXX, Ground is not connected, GN/YE wire is cut off.

ELECTRICAL - CURRENT : MAX. 5.0A
CONTACT RESISTANCE : ≤15 milliohms MAX.
INSULATION RESISTANCE : 100 Megaohms MIN.

PHYSICAL - OPERATING TEMPERATURE WITH :
NITRILE RUBBER (NBR) GASKET : -40°C TO +90°C
LIVE CONTACT DISTANCE :
FORM B - 11.00mm

ENVIRONMENTAL - IP65 SEALING PROTECTION(FIXING SCREW)

BILL OF MATERIALS

12	0/2	WASHER	-	-
11	0/2	SCREW M3x27	STEEL	ZINC
10	0/2	INTEGRATED GASKET	NBR	-
9	0/2	FLAT GASKET	NBR/SILICONE	-
8	0/2	PROFILE GASKET	NBR/SILICONE	-
7	0/2	SCREW M3x25	STEEL	ZINC
6	2	LABEL WHITE	ABS	-
5	0/2	PCB	-	-
4	2	INSERT DIN	PA66+25%G V0	-
3	6	CONTACT DIN	BRASS	SILVER
2	-	MOULDING MATERIAL	PP	-
1	-	CABLE	PUR	BLACK
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS mm	SCALE 1:1	CURRENT REV DESC: OBSOLETE PART NUMBER AS PER PCN#509457.			molex				
GENERAL TOLERANCES (UNLESS SPECIFIED)									
ANGULAR TOL	$\pm 1.0^\circ$	EC NO: 680890			STANDARD E66 DIN FORM B H6				
4 PLACES	$\pm$	DRWN: SANTHN 2021/05/27							
3 PLACES	$\pm$	CHK'D: GGA 2021/11/25							
2 PLACES	± 0.05	APPR: GGA 2021/11/25			PRODUCT CUSTOMER DRAWING				
1 PLACE	± 0.3	INITIAL REVISION:			DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
0 PLACES	± 0.5	DRWN: SSM 2020/07/29			1210550141		PSD	000	A1
APPR: RSILLER 2020/09/04									
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION 	DRAWING A3-SIZE	SERIES 121055	MATERIAL NUMBER SEE SHEET 2	CUSTOMER GENERAL MARKET	SHEET NUMBER 1 OF 2		

ENGINEERING No. MATRIX

E 6 6 X X X X X X X 6 X X X X

E66 - Form Industrial
(11mm Contact Spacing)

Number of Wires
2 - 2 Poles
3 - 2 Poles + Ground

Cable type:
See Table

Head Colour:
G - Grey
N - Black
A - CSA-UL Black
B - CSA-UL Grey

Cable Length
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

Cable Length
in cm Between
2 connectors (L1)
15=15 cm
30=30 cm
1K=100 cm
min length=13 cm

Earth PIN Location:
6=6/1 1 earth on 6H

Internal Circuit
see Wiring Configuration

Voltage and LED color

1= 12V
2= 24V
3= 48V
4= 115V
5= 230V
RED LED

A= 12V
B= 24V
C= 48V
D= 115V
E= 230V
GREEN LED

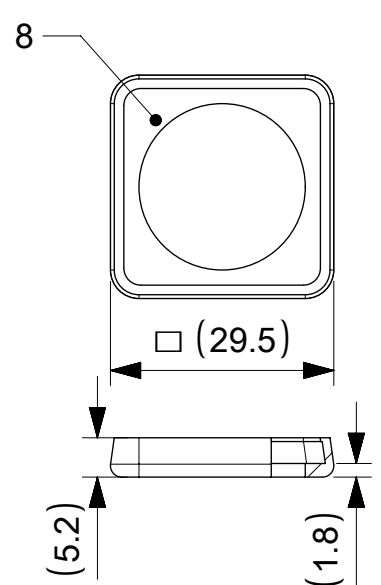
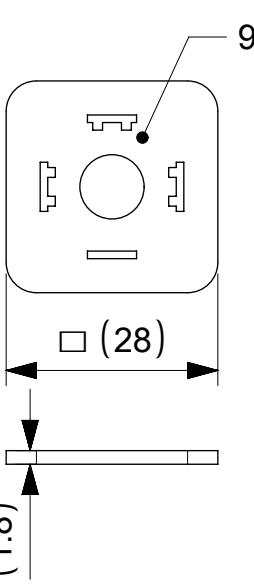
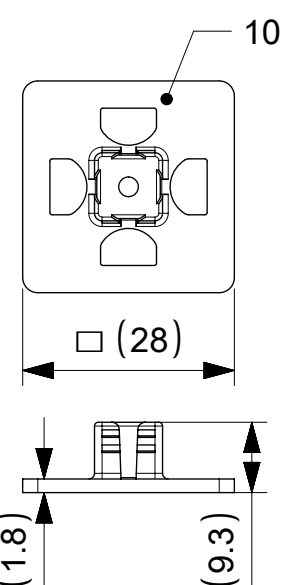
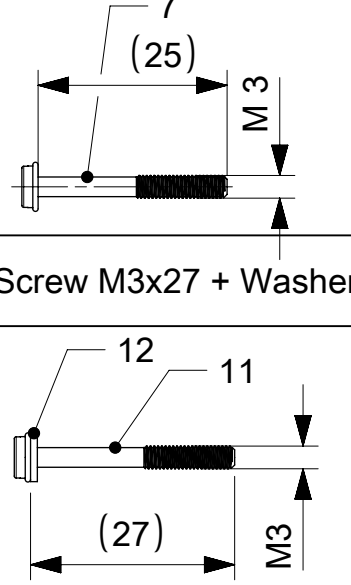
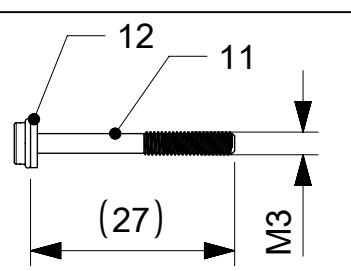
G= 12V
H= 24V
K= 48V
L= 115V
M= 230V
YELLOW LED

Type of Gasket and Screw:

- 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

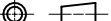
- P = NBR Integrated Gasket + Fixing Screw with Washer M3x27mm Assembled on Connector
- R = NBR Integrated Gasket + Fixing Screw with Washer M3x27mm NOT Assembled on Connector
- T = NBR Profile Gasket + Fixing Screw with Washer M3x27mm

Type of Screws and Gaskets

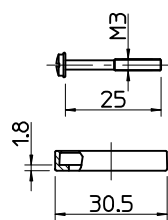
Profiled Gasket	Flat Gasket	Integrated Gasket	Screw M3x25
			
			Screw M3x27 + Washer
			

PART LIST

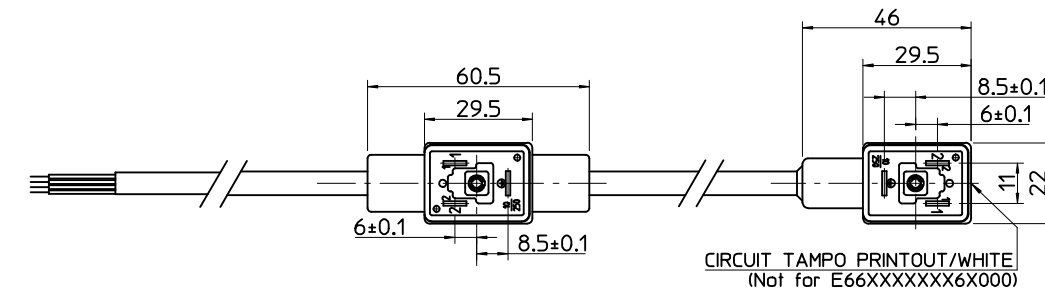
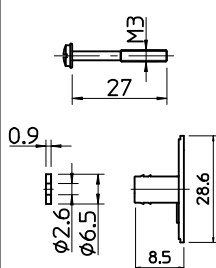
SL No.	MOLEX P/N	ENG No.
1	1210550154	E663I2NE1361C4H
2	1210550325	E663I3NL1361000
3	1210550326	E663I3NL2161000
4	1210550293	E662P3NA1361C4H
5	1210550294	E662P3NA1361C4M

TABLE OF LENGTH TOLERANCES [mm]			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: OBSOLETE PART NUMBER AS PER PCN#509457.		molex STANDARD E66 DIN FORM B H6 PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER 1210550141 DOC TYPE PSD DOC PART 000 REVISION A1					
Over	Up to and Including	Tolerance	mm		1:1									
			GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 680890 DRWN: SANTHN CHK'D: GGA APPR: GGA INITIAL REVISION: DRWN: SSM APPR: RSILLER								2021/05/27 2021/11/25 2021/11/25 2020/07/29 2020/09/04	
			ANGULAR TOL ± 1.0 °											
			4 PLACES ±											
			3 PLACES ±											
0	500	-10/+20			2 PLACES ± 0.05									
500	1000	±20			1 PLACE ± 0.3									
1000	3000	±30			0 PLACES ± 0.5									
3000	5000	±40			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION							
5000	10000	±50					DRAWING							
10000	15000	±100					A3-SIZE							
15000	20000	±150					SERIES							
20000		±L/100			121055		MATERIAL NUMBER							
					SEE PART LIST		CUSTOMER							
					GENERAL MARKET		SHEET NUMBER							
					2 OF 2									

Screw M3x25
and Profile Gasket
Qty 2
(See sheet 2)



Screw M3x27
with Grommet
& Integrated Gasket
Qty 2
(See sheet 2)



IN CASE OF E66XXXXXX6X000 WITHOUT LED

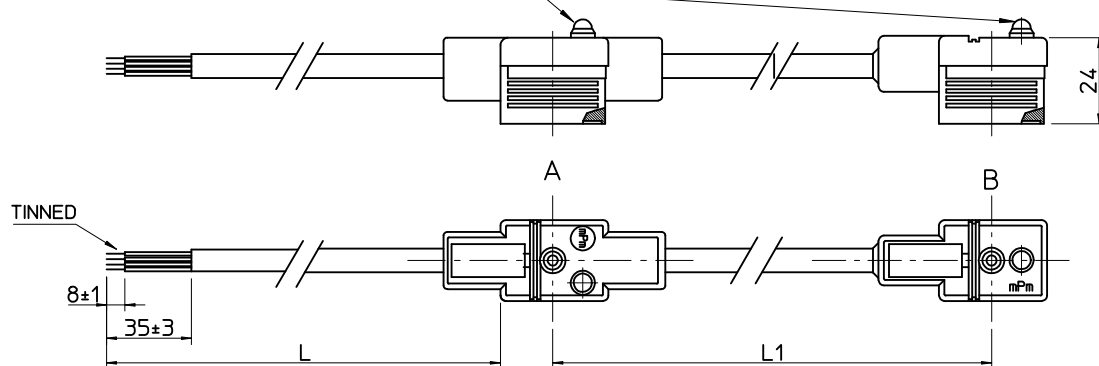
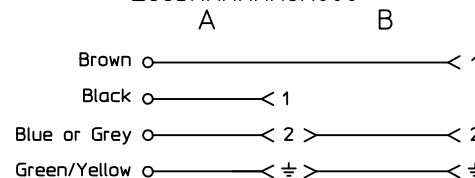


Table of length tolerances [mm]

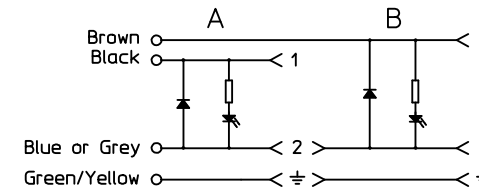
Over	Up to and including	Tolerance
0	1000	±20
1000	3000	±30
3000	5000	±40
5000	10000	±50
10000	15000	±100
15000	20000	±150
20000		±L/100

NOTE: Ground on schematics does not apply to E662XXXXXX6XXXX

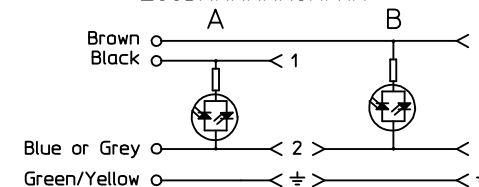
ELECTRICAL DIAGRAM
E663XXXXXX6X000



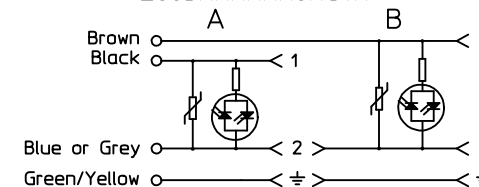
ELECTRICAL DIAGRAM
E663XXXXXX6XC3X



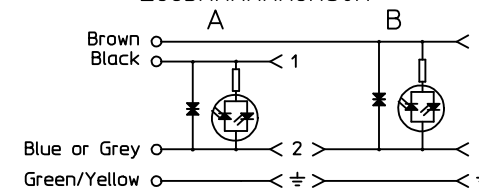
ELECTRICAL DIAGRAM
E663XXXXXX6XA1X



ELECTRICAL DIAGRAM
E663XXXXXX6XC4X



ELECTRICAL DIAGRAM
E663XXXXXX6XS0X



ORIGINAL RELEASE
EC NO: IPG2013-1505
DRWN: JMARZALEK 2013/03/28
CHKD: MOWSZEWSKA 2013/03/28
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 JMARZALEK 2013/02/08
CHECKED BY MSZWAJKOWSKI 2013/02/08
APPROVED BY MIWASIECZKO 2013/02/12
MATERIAL NO.
SEE SHEET 2&4

SCALE
DESIGN UNITS
METRIC
FIRST ANGLE PROJECTION
E66XXXXXX6XXXX
DUAL DIN FORM INDUSTRIAL
molex
SD-121055-002
SHEET NO.
1 OF 4

F

E

D

C

B

A

F

E

D

C

B

A

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	5,5±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.
1202092430	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

ORIGINAL RELEASE
EC NO: IPG2013-1505
DRWN: MARSZALEK 2013/03/28
CHKD: MOYSZEWSKA 2013/03/28
APPR: MIWASIECZKO 2013/04/02

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
JMARZSALEK 2013/02/08
CHECKED BY DATE
MSZWAJKOWSKI 2013/02/08
APPROVED BY DATE
MIWASIECZKO 2013/02/12
MATERIAL NO.
SEE SHEET 2&4

SCALE
1:1
DESIGN UNITS
METRIC
FIRST ANGLE PROJECTION
TITLE
E66XXXXXXXXX6XXXX
DUAL DIN FORM INDUSTRIAL
molex
DOCUMENT NO.
SD-121055-002
SHEET NO.
3 OF 4

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