Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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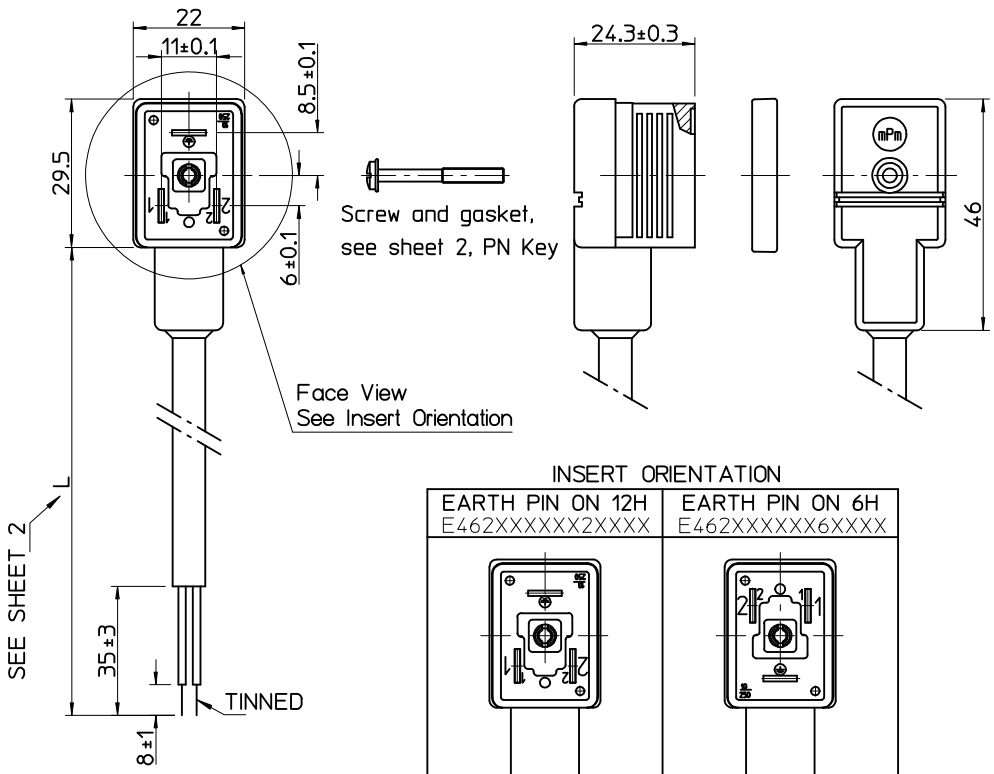
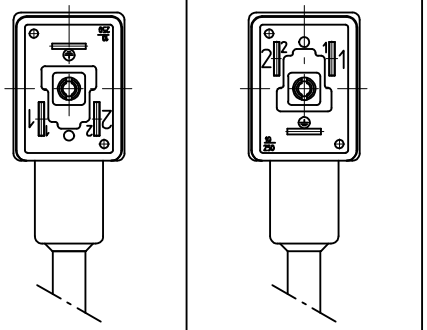
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



INSERT ORIENTATION

EARTH PIN ON 12H	EARTH PIN ON 6H
E462XXXXXX2XXXX	E462XXXXXX6XXXX



WIRING CONFIGURATION

E161XXXXXXXX	Brown (or BK1)	1
	Blue (or BK2)	2
	Not Used	⏚
E162XXXXXXXX	Brown (or BK1)	1
	Blue (or BK2)	2
	Green/Yellow (or BK3)	⏚

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

Technical data

Cable	See sheet 2 & 3
Wiring	SEE ELECTRIC DIAGRAM
Material, contact holder colour	PA66 + 25%G UL94-V0 - Black
Material and overmould colour	See sheet 2
Voltage / Current	250V / 5A
Contact resistance	≤ 4 mohm
Protection grade	See sheet 2: IP65 EN 60529 or IP67 EN 60529
Insulating class	VDE 0110 1/89 2.5 KV/3

ADDED FLAMMABILITY RATING
EC NO: IPG2016-0838 2015/11/12
DRWN:APAWLAK01 2015/11/12
CH'KD:KKALICIAK 2015/12/07
APPR:MIWASIECZKO
DESCRIPTION
REV
B1

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
SCALE
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JMARSZALEK DATE: 2013/02/05
CHECKED BY: MSZWAJKOWSKI DATE: 2013/02/05
APPROVED BY: MIWASIECZKO DATE: 2013/02/12

TITLE: E16XXXXXXXXX
DIN FORM INDUSTRIAL

molex

MATERIAL NO.: SEE SHEET 2
DOCUMENT NO.: SD-121040-008
SHEET NO.: 1 OF 4
SIZE: A3

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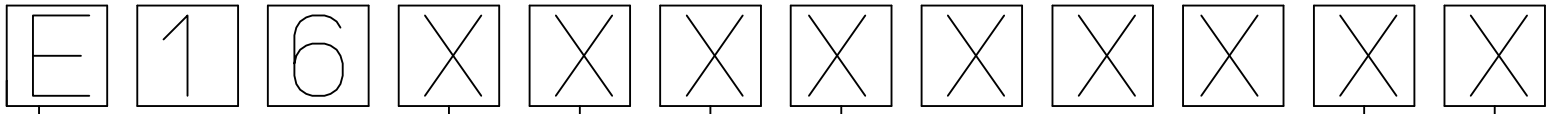

E - Packing without bags
W - Single packing
Q - Quick packing

NUMBER OF WIRES:
1=2 WIRES
2=2 WIRES + EARTH

CABLE TYPE
SEE SHEET 3 - TABLE 1

CABLE CROSS SECTION AREA
SEE SHEET 3 - SEE TABLE 2

HEAD COLOUR:
G=GREY;
N=BLACK; Polpropylene self extinguishing V2
T=TRANSPARENT;
A=CSA-UL BLACK;
B=CSA-UL GREY.

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

EARTH PIN LOCATION (SEE INSERT ORIENTATION TABLE):
2=EARTH PIN ON 12H.
6=EARTH PIN ON 6H.

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

ENTER DESCRIPTION
EC NO: IPG2016-0838 2015/11/12
DRWN:APAWLAK01 2015/11/12
CH'KD:KKALICIAK 2015/12/07
APPR:MIWASIECZKO
DESCRIPTION
REV
B1

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
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JMARSZALEK DATE: 2013/02/05
CHECKED BY: MSZWAJKOWSKI DATE: 2013/02/05
APPROVED BY: MIWASIECZKO DATE: 2013/02/12
MATERIAL NO.: SEE MATRIX

TITLE
E16XXXXXXXXX
DIN FORM INDUSTRIAL

molex

DOCUMENT NO.: SD-121040-008
SHEET NO.: 2 OF 4
SIZE: A3

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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	5,4±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.
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

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 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	0,36 mm2	PVC CEI 2022 II O.R.	Grey RAL7036	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

ENTER DESCRIPTION
EC NO: IPG2016-0838
DRWN:APAWLAK01 2015/11/12
CHKD:KKALICIAK 2015/11/12
APPR:MIWASIECZKO 2015/12/07
DESCRIPTION
REV
B1

QUALITY SYMBOLS
▼=0
CE=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
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JMARSZALEK DATE: 2013/02/05
CHECKED BY: MSZWAJKOWSKI DATE: 2013/02/05
APPROVED BY: MIWASIECZKO DATE: 2013/02/12

TITLE: E16XXXXXXXXX
DIN FORM INDUSTRIAL

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MATERIAL NO.: SEE MATRIX
DOCUMENT NO.: SD-121040-008
SHEET NO.: 3 OF 4
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