

E&B TECHNOLOGY CO LTD

SWAN INDUSTRIAL DIST, LI WU VILLAGE, QIAO TOU TOWN, DONGGUAN GUANGDONG 523535 CN

System Component	System Designation	System Class
E&B-XXX*YYYYZF, E&B-XXX*YYYYZF-2, E&B-XXX*YYZB, E&B-XXX*YYZB-1, E&B-XXXB, E&B-XXXB-1, E&B-XXXP, E&B-XXXX	EB-130-T	130(B)

Report Date: 2013-06-10

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alternate constructions: [Table III](#)

An Authorization Letter is Required for Adoption of this System

Construction Details (Table III)

The use of this insulation system is limited to the combination of materials specified below. Where more than one item is designated under insulation function, they may be used together indicated, or they may be used as alternates to one another. Functions designated "optional" are not necessarily required for every design. Insulation thicknesses and/or layers below indicated.

Filament Wire

Additional Ground & Interwinding insulation **is** required to separate this winding from other windings or between this winding and grounded/dead metal

Recognized Component Single and Multi-Layer Insulated Winding Wire (OBJT2) listed below

Recognized Component Appliance Wiring Material (AVLV2) listed below

Unless otherwise noted, winding wire types listed below may be used in combination within a single product

E&B TECHNOLOGY CO LTD [E315265] - Recognized Component		
E&B-XXX*YYYYZF	4.7 (0.12)	Conductor must be R/C - Magnet Wires (OBMW2 MW 75
E&B-XXX*YYYYZF-2	4.7 (0.12)	Conductor must be R/C - Magnet Wires (OBMW2 MW 75
E&B-XXXP	4.4 (0.11)	Conductor must be R/C - Magnet Wires (OBMW2 MW 75

Filament Wire

Additional Ground & Interwinding insulation **is not** required to separate this winding from other windings or between this winding and grounded/dead metal

Recognized Component Single and Multi-Layer Insulated Winding Wire (OBJT2) listed below

Recognized Component Appliance Wiring Material (AVLV2) listed below

Unless otherwise noted, winding wire types listed below may be used in combination within a single product

E&B TECHNOLOGY CO LTD [E315265] - Recognized Component	
E&B-XXX*YYZB	4.2 (0.11)
E&B-XXX*YYZB-1	4.2 (0.11)
E&B-XXXB	4.2 (0.11)
E&B-XXXB-1	4.2 (0.11)

Enameled Wire

Recognized Component - Magnet wire (OBMW2), single build or greater, round or rectangular, copper or aluminum unless stated otherwise for the types listed below

Ground Insulation is required to separate this winding from grounded/dead metal

Interwinding Insulation **is** required to separate this winding from other enameled wire

Unless otherwise noted, Winding Wire types listed below may be used in combination within a single product

ANSI Type	Temp(°C)	Basecoat(Topcoat)
MW 28	and 130°C	Polyurethane (Polyamide)
MW 75	and 130°C	Polyurethane
MW 79	or 155°C	Polyurethane
MW 80	or 155°C	Polyurethane (Polyamide)
MW 82	or 180°C	Polyurethane
MW 83	or 180°C	Polyurethane (Polyamide)

Ground and Interwinding Insulations

Designation	mils(mm)	comments
3M COMPANY [E17385] - Recognized Component		
1 (a)	2[layers]	
1098-1 (b)	2[layers]	
1205	2[layers]	
1298CR	2[layers]	
1318-1 (a)	2[layers]	
1318-2 (a)	1[layers]	
1350-1 (b)	2[layers]	
1350-2 (c)	1[layers]	
1350B-1 (b)	2[layers]	
1350F-1 (b)	2[layers]	
1350F-2 (c)	1[layers]	
1350Y-1 (b)	2[layers]	
1388B-1 (b)	2[layers]	
1388W-1 (b)	2[layers]	
1388Y-1 (b)	2[layers]	
44 (a)	2[layers]	
5	2[layers]	
54 (a)	2[layers]	
56 (a)	2[layers]	
57 (a)	1[layers]	
58 (a)	1[layers]	
74 (a)	4[layers]	
75	2[layers]	
92	1[layers]	
CHANG CHUN PLASTICS CO LTD [E59481] - Recognized Component		

T200HF	15.7 (0.4)	
T200NA	15.7 (0.4)	
<u>CHANG SHU LIANG YI TAPE INDUSTRY CO LTD [E246820] - Recognized Component</u>		
LY-19-01-15 (c)(d)	2[layers]	
LY-19-01-18 (c)(d)	1[layers]	
LY-19-01-20 (c)(d)	1[layers]	
LY-19-01-25 (c)(d)	1[layers]	
LY-19-01-40 (c)(d)	1[layers]	
LY-19-01-85 (e)(d)	1[layers]	
LY-19-02-15 (c)(d)	2[layers]	
LY-19-02-18 (c)(d)	1[layers]	
LY-19-02-20 (c)(d)	1[layers]	
LY-19-02-25 (c)(d)	1[layers]	
LY-19-02-40 (c)(d)	1[layers]	
LY-19-02-85 (e)(d)	1[layers]	
LY-XX*	2[layers]	
<u>DONGGUAN SHIN YAHUA ELECTRONIC MATERIAL CO LTD [E324093] - Recognized Component</u>		
CT* (b)(g)	2[layers]	
CT* (c)(g)	2[layers]	
PF* (d)(g)	2[layers]	
PZ* (b)	2[layers]	
WF* (c)(h)	1[layers]	
<u>DuPont Specialty Products USA LLC [E39505] - Recognized Component</u>		
Kapton® 100H, 100HN, 100HN-S, 100H-ZT, 100HN-ZT, 100FPC-ZT, 100TAB-ZT, 100PST, 100HA, 100TN, 100V, 100VN, 100FPC, 100FPC-A, 100HPP-ST	1 (0.03)	
<u>DuPont Specialty Products USA, LLC [E34739] - Recognized Component</u>		
Nomex® 410	5 (0.13)	
<u>Dupont Teijin Films</u>		
Mylar	2 (0.05)	polyethylene terephthalate film (PET)
<u>E I DUPONT DE NEMOURS & CO INC [E41938] - Recognized Component</u>		
Rynite 530 (f1) (+), 530L (f1) (+)	15 (0.38)	
Zytel 101(r9), 101F(r9), 101L(r9), E101(r9), E101L(r9)	28 (0.71)	
<u>JINGJIANG FUWEI ADHESIVE PRODUCT CO LTD [E302608] - Recognized Component</u>		
FW	2[layers]	
<u>JINGJIANG JINGYANG INSULATING PRODUCT CO LTD [E309872] - Recognized Component</u>		
JY-133	2[layers]	
<u>JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD [E246950] - Recognized Component</u>		
JY25-A (b)	2[layers]	
<u>JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD [E165111] - Recognized Component</u>		
CT (b)(g)	2[layers]	
CT* (c)(g)	2[layers]	
PF* (d)(g)	2[layers]	
PZ* (b)	2[layers]	
WF* (c)(h)	1[layers]	
<u>SHENZHEN MEIXIN ELECTRONIC CO LTD [E304309] - Recognized Component</u>		
MX-466	2[layers]	
MX-866	2[layers]	
<u>SUMITOMO BAKELITE CO LTD [E41429] - Recognized Component</u>		
SUMIKON PM-9630	11.8 (0.3)	
<u>SUMITOMO CHEMICAL CO LTD [E249884] - Recognized Component</u>		
SUMIKASUPER E4008(c4)(c2)(c3)(j)(f2)	15.7 (0.4)	
<u>SYMBIO INC [E50292] - Recognized Component</u>		
35660 (a)	2[layers]	
35660Y (e)	2[layers]	
35661 (c)	2[layers]	
35661-3 (h)	2[layers]	
KA02	1[layers]	
KA180	1[layers]	
MY9XAF (g)	2[layers]	
MY9YAF (h)	2[layers]	

Lead Wires

lead wires are optional for this system

Temp	Insulation
105°C	XLPE - crosslinked polyethylene +
125°C	XLPE - crosslinked polyethylene
125°C	XLPO - crosslinked polyolefin
150°C	SR - silicone rubber(with or without braid)
150°C	PTFE - polytetrafluoroethylene
150°C	XLPE - crosslinked polyethylene
150°C	XLPO - crosslinked polyolefin

+ To be isolated from direct contact with windings (magnet wire) by any insulating material (tape, layer insulation, sleeving, etc.) listed in this table - unless specifically excluded by a special note at the beginning of this table.

Minor Sheet Materials

(layer, outer, wrap etc.) minor sheet is optional for this system

Designation	comments
<u>Xinfeng Ghillie Electrical Material Co., Ltd</u>	
Ghillie DMD-B	
Ghillie DMD-F	
NMN	

any sheet insulation or tape described in this table with no minimum thickness requirement may be used as a minor sheet material

Tapes

tapes are optional for this system

Designation	comments
<u>3M COMPANY [E17385] - Listed or Recognized Component</u>	
1 (a)	
1098-1 (b)	
1181	
1194	
1205	
1218	
1298 (b)	
1298CR	
1318-1 (a)	
1318-2 (a)	
1350-1 (b)	
1350-2 (c)	
1350CR-1	
1350CR-2	
1350F-1 (b)	
1350F-2 (c)	
1350T-1 (b)	
1350T-2 (b)	
1350T-3 (b)	
1351-1 (a)	
1351-2 (c)	
1351T-1 (a)	
1351T-2 (a)	
44-T (a)	
44D (a)	
44D-A (a)	
44T-A (a)	
5	
54 (a)	
55	
56 (a)	
57 (a)	
58 (a)	
69 (a)	
74 (a)	
75	
79	
92	
Super 10 (a)	
Super 20 (a)	
<u>DONGGUAN SHIN YAHUA ELECTRONIC MATERIAL CO LTD [E324093] - Listed or Recognized Component</u>	
CT* (b)(g)	
CT* (c)(g)	
PZ* (b)	
WF* (c)(h)	
<u>Guangdong Kangli New Energy Materials Technology Co Ltd [E511186] - Listed or Recognized Component</u>	
KL-158	
KL-168	
<u>Guangdong Kangli New Energy Materials Technology Co Ltd [E516410] - Listed or Recognized Component</u>	
KL-188	
<u>JINGJIANG FUWEI ADHESIVE PRODUCT CO LTD [E302608] - Listed or Recognized Component</u>	
FW	
WF101	
<u>JINGJIANG JINGYANG INSULATING PRODUCT CO LTD [E309872] - Listed or Recognized Component</u>	
JY-200	
JY-201	
JY-233	
<u>JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD [E246950] - Listed or Recognized Component</u>	
J16	
J18	
JY25-A (b)	
WF310 (a)	
<u>JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD [E165111] - Listed or Recognized Component</u>	
CP-3002	
CT* (b)(g)	
CT* (c)(g)	
CT-280B	
CT-282F	
CT-285B	
PF* (d)(g)	
PZ* (b)	
WF* (c)(h)	
<u>Nitto Inc [E20392] - Listed or Recognized Component</u>	
P-245 (a) (P-245 BLK (a))	
<u>SHENZHEN MEIXIN ELECTRONIC CO LTD</u>	
HMT803	
HMT804	

SHENZHEN MEIXIN ELECTRONIC CO LTD [E304309] - Listed or Recognized Component

MX-466-00

MXAL-110.210

MXCU-110.210

MXPI-310F.310.312

Shenzhen Xinhuaui Adhesive Technology Co Ltd [E328315] - Listed or Recognized Component

HMT803

HMT804

SYMBIO INC [E50292] - Listed or Recognized Component

35660 (a)

35660Y (e)

35661 (c)

35661-3 (h)

KA00

KA180

KA180K

KA200

MY9XAF (g)

MY9YAF (h)

Core tubes and Bobbins

(for mechanical support only) cores are optional for this system

Designation

comments

ASCEND PERFORMANCE MATERIALS. LLC

ECO525

ASCEND PERFORMANCE MATERIALS. LLC [E70062] - employing Recognized materials

VYDYNE 909

VYDYNE R530

BASF CORP [E36632] - employing Recognized materials

Ultramid A3X2G5

CHANG CHUN PLASTICS CO LTD [E59481] - employing Recognized materials

LONGLITE 4115(f1)

LONGLITE 4130

LONGLITE T375HF

LONGLITE T375J(G5)(G6)

T200HF

T220NA

E I DUPONT DE NEMOURS & CO INC [E41938] - employing Recognized materials

Rynite FR515(f1)

Rynite FR530(l)(+)(f1), FR530L(l)(+)(f1)

Rynite FR531

Rynite FR533NH

Zytel 101(r9)(f1), 101F(r9)(f1), 101L(r9)(f1), E101(r9)(f1), E101L(r9)(f1)

Zytel 70G33L(+)

Zytel FR50(+)(f1)

Zytel HTNFR52G30NH(r6)

Jiangsu Wote High Performance Materials Co Ltd [E478701] - employing Recognized materials

SELCION KB40M, KB40BM, KB40(+)

SELCION KD130NI, KD130BI

KA140M

KURARAY CO LTD [E90350] - employing Recognized materials

GN2330(#)

GN2450(#)

LG CHEM(TIANJIN) ENGINEERING PLASTICS CO LTD [E302314] - employing Recognized materials

LUPOX GP-2306F(#)

SAMYANG CORPORATION [E116425] - employing Recognized materials

TRIPET 2550GN30

SHINKONG SYNTHETIC FIBERS CORP [E107536] - employing Recognized materials

E202G30

F202G30

SUMITOMO BAKELITE CO LTD [E41429] - employing Recognized materials

SUMIKON PM-9630

SUMIKON PM-9750

SUMIKON PM-9820, PM-9825

SUMIKON PM-9823

SUMITOMO CHEMICAL CO LTD [E249884] - employing Recognized materials

SUMIKASUPER E4008(c4)(c2)(c3)(j)

Spacer and Wedges

spacer and wedges are optional for this system

Designation

comments

E. I. Dupont de Nemours & Co.

Nomex Board

Kingboard Laminates Holdings Ltd

FR-4

Kunshan Weihao

3240

FR-4

NAN YA PLASTICS CORP CLL DEPT ELECTRONIC MATERIAL DN
FR-5

Rochling Glastic Composites
GP0-3

any material described in this table with no thickness requirement may be used as a spacer or a wedge

Tubing and Sleeving

tubing and sleeving are optional for this system

Designation	comments
<u>CHANGYUAN ELECTRONICS GROUP CO LTD [E180908] - Recognized Component</u> CB-HFT, CB-HFT(XY), CYG-MT CB-TT-L CB-TT-S CB-TT-T CYG-KYNAR CYG-ZHP	
<u>E&B TECHNOLOGY CO LTD [E469946] - Recognized Component</u> E&B-XXXX	
<u>HUAPENG (SUZHOU) HEAT-SHRINKABLE MATERIALS CO LTD [E324238] - Recognized Component</u> H-AFS+XG H-FSG H-SFG H-SFS H-SFT	
<u>HUAPENG (SUZHOU) HEAT-SHRINKABLE MATERIALS CO LTD [E338254] - Recognized Component</u> H-PET#	
<u>JIA CHANG ELECTRIC INSULATION INDUSTRIAL CO LTD [E253184] - Recognized Component</u> FRS-3U FRS-4U#	
<u>NIKKAN INDUSTRIES CO LTD [E55258] - Recognized Component</u> S-693F-1 S-693V F-1	
<u>NIKKAN INDUSTRIES CO LTD [E72406] - Recognized Component</u> S-693-600	
<u>NIKKAN INDUSTRIES CO LTD [E88468] - Recognized Component</u> E-651U-1 E-651U-2	
<u>SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD [E203950] - Recognized Component</u> RSFR-H WF	

Tie Cords

tie cords are optional for this system

Designation	comments
<u>Various Manufacturers</u> Uncoated fiberglass	

Potting Compounds

potting compounds are optional for this system

Designation	comments
<u>Chemtros Co Ltd [E108491] - employing Recognized materials</u> 508	
<u>DONG GUAN SHI PAI HUA CHUANG MATERIAL FTY [E304477] - employing Recognized materials</u> 808A/B-H H907-H##	
<u>Dongguan City Heng erlang Industrial Co Ltd [E475498] - employing Recognized materials</u> EP3189H/S	
<u>DONGGUAN CITY HENG ERLANG INDUSTRIAL CO LTD</u> EP3189 G657-3	
<u>Dongguan Eatto Electronic Material Co LTD</u> 3300 E-500(XX)	
<u>ELANTAS Europe S.r.l. [E116643] - employing Recognized materials</u> Micares X1087BK	
<u>ELANTAS PDG, Inc. [E100866] - employing Recognized materials</u> ELAN-Cast® E 471-5LL, E 471-5LL-HV, ELAN-Cast E 700 / C 700 MC62/W363, MC633/W633, MC62/W363BF, MC62US/W363	
<u>ELANTAS ZHUHAI CO LTD [E333984] - employing Recognized materials</u> Micares X1087BK 471-5LL, 471-5LL-HV MC62/W363, MC633/W633	
<u>Sung Woo ES CO., LTD</u> SW860	
<u>SUZHOU POCHLEY ELECTRONIC MATERIAL CO LTD</u> 8019A/B 8757 HB-5225A/B	

Varnishes

varnishes are optional for this system

Designation	comments
<u>ELANTAS PDG, Inc. [E75225] - Recognized Component</u> 50 (e), 50S (e), 50SM (e), 50VT (e), 50VTC (e)&, 5180 (e), 5183 (e)&, 5183SW&, 5180 VT (e)&, ELAN-Dur 822A01&, CORONA-Protect 828A01& V1380, V1380FC, V1380FC Black, 80381FC V1630, V1630FS, V1630FS50, V1630FS Black, 80361, 80361FS	
<u>ELANTAS ZHUHAI CO LTD [E314793] - Recognized Component</u> 50 (e), 50S (e), 50SM (e), 50VT (e), 50VTC (e), 5180 (e), 5183 (e), 5183SW, ELAN-Dur 822A01, CORONA-Protect 828A01 V1380, V1380FC, V1380FC Black, 80381FC V1630FS, V1630, V1630FS50, V1630FS Black, 80361, 80361FS	
<u>HUI ZHOU QIANG DA ELECTRONICS INDUSTRY CO LTD [E347463] - Recognized Component</u> DA-700-*	
<u>John C Dolph Co [E317427] - Recognized Component</u> AC-43, EB-43-HG, EB-43-FB, AC-43-66, EG-43/698-D, EG-43/759-D, ER-43/368-D BC-346A, BC-346-A, BC-346B, BC-346-E, BB-348, BB-346-HF, BC-346HF, BG-346A, BB-346-A, BB-346/A, BC-370	
<u>Nantong Start Advanced Material Co Ltd [E497313] - Recognized Component</u> S-798	
<u>NOROO PAINT & COATINGS CO LTD [E93947] - Recognized Component</u> DVB-2085(*)	
<u>Showa Denko Materials Co., Ltd. [E72979] - Recognized Component</u> WP-2952F-2G, WP-2952F-2G(Y), WP-2952F-2G(YL), WP-2952F-2G (YS), WP-2952F-2G(FC), WP-2952F-2G(H), WP-2952F-2G(K)	