

OBJS2 System Component, Electrical Insulation - Component		E200050
P LEO & CO (B C) LTD PO BOX 94250 RICHMOND BC V6Y 2A6 CA		
System Component	System Designation	System Temp (Class)
1P133, 1P135, 1H860, 1K7178, 1H86R, 1H866, 1K7178, 1P316, 2T-TFT, 2R-SG, 2T-TFL, 2T-TFS, 1PENS, 1H130, 1P9FR, 1TF07, 1A025, 1PEN2, 1H86A, 1TF05, 1PN2R, 1PEN3, 1PN3R, 1H86R, 1P801, 1P802, 1PEN2, 1PEN3, 1PN2R, 1PN3R, 1N012, 1G006, 1P130, 1H860, 1K063, 1H850, 1PN820, 1PN828, 1G130, 1G155, 1G180, 1K7170, 1P700, 1P808, 1P801, 1P802, 1K7171, 1P350, 1P830, 1N008, 1N155, 1P133, 1P135, 1H818, 1P833, 1K7172, 1G200, 1P656, 1P756, 1A570, 1A605, 1C822, 1K7170, 1K7177, 1K063CR, 1N012	F88	155(F)
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Construction Details (Table I)

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, unless otherwise 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 indicated below are minimum.

Winding Wire

- Recognized Component - Magnet wire (OBMW2), single build or greater, round or rectangular listed below or
- Recognized Component - Single and Multi-Layer Insulated Winding Wire (OBJT2) listed below or
- 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)

MW 79 or 155C Polyurethane
MW 80 or 155C Polyurethane (Polyamide)
MW 82 or 180C Polyurethane
MW 83 or 180C Polyurethane (Polyamide)

Furukawa

TEX-F 4.72 mils (0.12 mm) triple insulated

Rubadue Wire Co. Inc.

FEP wire 4.06 mils (0.1 mm) double or triple layer insulated
TCA3 3.62 mils (0.09 mm) double or triple layer insulated
Tefzel wire 3.62 mils (0.09 mm) double or triple layer insulated

Totoku Electric

TIW-3 3.86 mils (0.1 mm) triple insulated
TIW-E 3.86 mils (0.1 mm) triple insulated

Ground & Interwinding Insulations

Any Recognized Component Plastic (QMFZ2), polyethylene terphthalate film (PET) 5 mils (0.13 mm) - various manufacturers

Designation (no.)	mils(mm) comments
DuPont	
Nomex 410	5 (layers)
Kaladex2000	1 (0.03)
Kapton 100CR	1 (0.03)
Kapton 100HA	1 (0.03)
Kapton 100HN	1 (0.03)
Kapton 100PST	1 (0.03)
P. Leo	
1H130	3 (layers)
1H860	3 (layers)
1H866	1 (layers)
1H86R	1 (layers)
1K7170	1 (layers) Recognized Component - Insulating Tape (OANZ2)
1K7177	1 (layers) Recognized Component - Insulating Tape (OANZ2)
1K7178	1 (layers)
1N012	2 (layers)
1P133	3 (layers)
1P135	3 (layers)
1P801	5 (layers) Recognized Component - Insulating Tape (OANZ2)
1P802	5 (layers) Recognized Component - Insulating Tape (OANZ2)
1PEN2	1 (layers) Recognized Component - Insulating Tape (OANZ2)
1PEN3	1 (layers) Recognized Component - Insulating Tape (OANZ2)
1PN2R	1 (layers) Recognized Component - Insulating Tape (OANZ2)
1PN3R	1 (layers) Recognized Component - Insulating Tape (OANZ2)
Sumitomo 3M Ltd	
Super 10-T	2 (layers) Recognized Component - Insulating Tape (OANZ2)
Super 10-W	2 (layers) Recognized Component - Insulating Tape (OANZ2)
Sumitomo Bakelite	
Sumikon AM-3200	11.8 (0.3) DAP Molding Comopund
Sumikon PM-9630	11.8 (0.3) Phenolic Molding Compound
Sumikon PM-9720	11.8 (0.3) Phenolic Molding Compound
Sumikon PM-9750	11.8 (0.3) Phenolic Molding Compound
Sumikon PM-9820	11.8 (0.3) Phenolic Molding Compound
Sumikon PM-9830	11.8 (0.3) Phenolic Molding Compound
Sumikon PM-9850	11.8 (0.3) Phenolic Molding Compound
Teijin Dupont Films Japan Ltd.	
Teonex Q51	1 (0.03)

Cores, Tube, Bobbins (optional) (for mechanical support only)
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Designation (no.)	comments
Cosmo Link	
PTFE-L	
PTFE-T	
Furukawa Electric	
PI-Tube	
Great Holding Industrial Co., Ltd.	
TFL	
TFS	
TFT	

Hitachi Cable Ltd

Verafit V2

Kurabe Industrial

SE-1

SE-2

Nikken

E-651U-1

E-651U-2

S-693-600

S-693F-1

Nissei Electric

RSU-1

RSU-2

P. Leo & Co. (B C) Ltd.

2R-SG

2T-TFL

2T-TFS

2T-TFT

Sumitomo Electical Fine Polymer

Sumitube F2(z)

Zeus Industrial Products Inc.

TFE-LW-150

TFE-SW-600

TFE-TW-300

Tapes (optional)

Designation (no.)	comments
P Leo & Co (B C) Ltd	
1A025	
1A570	
1A605	
1C822	
1G006	aramid fiber (Nomex) paper
1G130	glass cloth
1G155	glass cloth
1G180	glass cloth
1G200	woven glass cloth, silicone adhesive
1H818	reinforced PET, rubber adhesive
1H850	polyester film
1H860	acrylic adhesive, polyester film
1H86A	
1H86R	
1K063	silicone adhesive, polyimide film
1K063CR	
1K7170	Kapton film
1K7171	silicone adhesive, polyimide film
1K7172	silicone adhesive, polyimide film
1K7178	
1N008	aramid fiber (Nomex), rubber adhesive
1N012	PET film, acrylic adhesive
1N155	aramid fiber (Nomex), rubber adhesive
1P130	acrylic adhesive, polyester film
1P133	PET film, acrylic adhesive
1P135	PET film, acrylic adhesive
1P316	
1P350	PET film, acrylic adhesive
1P656	
1P700	polyester film
1P756	
1P801	acrylic adhesive, polyester film
1P802	acrylic adhesive, polyester film
1P808	polyester film

1P830	acrylic adhesive, polyester film
1P833	PET film, acrylic adhesive
1P9FR	
1PEN2	
1PEN3	
1PENS	
1PN2R	
1PN3R	
1PN820	woven polyester cloth
1PN828	woven polyester cloth
1TF05	
1TF07	
Sumitomo 3M Limited	
2245	(optional)
CU-35	(optional)
Super 10-T	
Super 10-W	
Teraoka Seisakusho Co., Ltd.	
831S	(optional)

Tie Cords (optional)

Designation (no.)	comments
Teijin	
BHT-44T	

Potting Compounds (optional)

Designation (no.)	comments
GE Toshiba Silicone	
TSE3331	
TSE3331K	

Varnishes (optional) Recognized Component - Varnishes (OBOR2)

Designation (no.)	comments
Hitachi Chemical Co. Ltd	
WA-238A	
WF-285	
WP-2952-F5	
WP-2952F-2G	
John C. Dolph Co	
AC-43	
BC-346A	
Kyocera Chemical Corp. (Toshiba Chemical)	
TVB-2024	
TVB-2180T++	++ optional suffix
Meiden Chemical	
#754XL	Cannot be used with TEX-F
#880	
P. D. George Co	
434	Air Dry
Ripley Resin 468-2(+)	May be followed by a two three alphanumeric suffix indicating percent of insert fill and/or color.
711-F-2106	
E-468-2-7*	May be followed by a one or two alphanumeric suffix indicating percent of insert fill and/or color.
E-468-2FC*	May be followed by a two three alphanumeric suffix indicating percent of insert fill and/or color.

E468-2*
P. D. George Co/Sterling
77X-010
Y-210
Viking Products
V1380
V1630

Cannot be used with TEX-F

Miscellaneous Minor Insulations (optional)

Designation (no.)	comments
Chang Chun	
PBT-4130	Coil cover
E. I. Dupont de Nemours & Co.	
FR530	Coil cover Rynite, coil cover
Zytel 103HSL	
Kolon	
KP212V0	Coil cover
Mitsubishi	
3010N	Coil cover coil cover
5010N6	coil cover
Teijin	
CH7030	Coil cover coil cover
CN7000	Coil cover coil cover
CRN7000	Coil cover coil cover
CRN7030	Coil cover coil cover
Toray Industries	
1494	PBT coil cover