

OBJS2 System Component, Electrical		E321249
Insulation - Component		
AEV LTD		
MARION ST BIRKENHEAD MERSEYSIDE CH41 6LT GB		
System	System	System
Component	Designation	Temp(Class)
Ultmeg	AEV 180-2	180(H)
2220GP, Ultmeg		
2002#		
Underwriters Laboratories Inc.		

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	<ul style="list-style-type: none"> - 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 - Bare conductors wrapped or interleaved with a paper or film listed below need not be a Recognized Component
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(unless otherwise noted, winding wire types listed below may be used in combination within a single product)

- MW 35 or 200C polyester (polyamideimide)
- MW 36 or 200C Polyester (Polyamide-imide)
- MW 37 or 220C Polyester (Polyamide-imide)
- MW 38 or 220C Polyester (Polyamide-imide)
- Bare Conductor - Nomex 410, 2 mils minimum thickness, 50% overlap or interleaved between sheet conductor

Ground & Interwinding Insulations

Designation (no.)	mils(mm)	comments
3M		
CeQuin I	10 (0.25)	unfired ceramic based rubber bonded paper
CeQuin II	10 (0.25)	unfired ceramic based rubber bonded paper
TufQuin 110	7 (0.18)	
E. I. Dupont de Nemours & Co.		
Nomex 410	5 (0.13)	aramid insulating paper
Isovolta AG		
Isonom NM	5-X	

Isonom NMN 0883

5 (0.13) minimum thickness Nomex layer(s)

Lead Wires

(optional)

150 XLPE - chemically crosslinked polyethylene +
180 SI - silicone rubber - with or without glass braid
200 SI - silicone rubber - with or without glass braid

+ 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 from this requirement by a special note at the beginning of this table.

Minor Sheet Insulations

(optional) layer, outer, wrap etc.

Any sheet insulation or tape described in this table with no minimum thickness requirement.

Designation (no.) comments

3M Innovative Paper Technologies
CORQUIN

Cores, Tubes Bobbins

(optional) for mechanical support only

Designation (no.) comments

Condordielectric
Condielglass G10

Tapes (optional)

Designation (no.) comments

H-old S R L
GL.95 glass cloth
PR.30 composite PET film

Spacers and Wedges

(optional)

Designation (no.) comments

Appix
Poltruded Profile Appix

Sleevings (optional)

Designation (no.) comments

Sirtes
MEKTON ST DG

Tie Cords

(optional)

Designation (no.) comments

Krempel
Vidatape Type C
Vidatape Type P

Varnishes

Recognized Component - Varnishes (OBOR2)

Designation (no.)

comments

AEV Limited

Ultmeg 2002#

**Potting
Compounds**

(optional)

Designation (no.)

comments

AEV Limited

Ultimeg 2220GP

