



Thermal Manufacturing Solutions

Section J

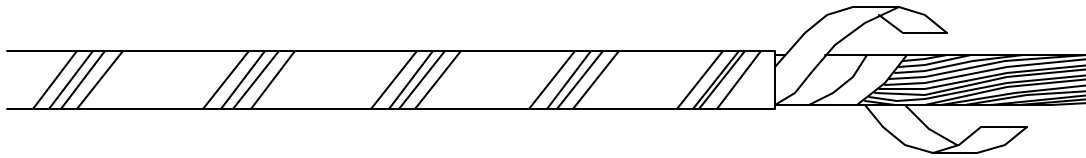
General Accessories

High Temperature Lead Wire	J-1
Ceramic Accessories And Plugs	J-2
Heavy Duty Quick-Disconnect Plugs	J-3
Nozzle Manifold Seal Rings	J-4
Platen Insulation Board	J-5

ACCESSORIES - HIGH TEMPERATURE LEAD WIRE

Type MG - 600 Volt, 450°C (842°F) UL Recognized

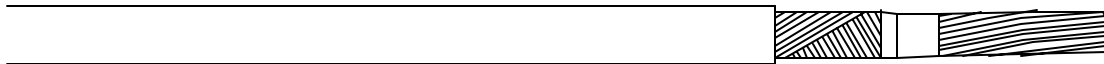
MG High Temperature Lead Wire is insulated with reinforced mica tapes or mica glass composite over the stranded conductors and covered by fiberglass overbraid impregnated with a high temperature finish.



WIRE GAUGE	NOMINAL O.D. (in)	STRANDING Num./Ga.	CONDUCTOR MATERIAL	PART NUMBER
20	.108	10/30	A-NI	MG-20GA
18	.117	16/30	A-NI	MG-18GA
16	.129	26/30	NPC	MG-16GA
14	.143	41/30	NPC	MG-14GA
12	.162	65/30	NPC	MG-12GA
10	.212	65/30	NPC	MG-10GA

Type TGGT Lead Wire - 250°C (482°F)

TGGT High Temperature Lead Wire is insulated with Teflon tapes over the stranded conductors, followed by two layers of fiberglass insulation, and covered by Teflon-treated fiberglass overbraid.



WIRE GAUGE	NOMINAL O.D. (in)	STRANDING Num./Ga.	CONDUCTOR MATERIAL	PART NUMBER
20	.085	10/30	A-NI	TGGT-20GA
18	.114	16/30	A-NI	TGGT-28GA
16	.108	26/30	NPC	TGGT-16GA
14	.121	41/30	NPC	TGGT-14GA
12	.139	65/30	NPC	TGGT-12GA
10	.164	105/30	NPC	TGGT-10GA

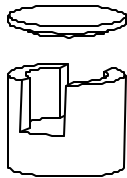
ACCESSORIES - CERAMIC ACCESSORIES & PLUGS



Ceramic Cap



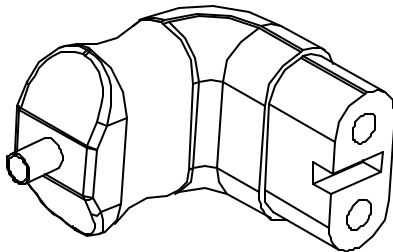
Conventional Ceramic Base



**Ceramic Cap & Base
for .430" diameter Tubular Heaters**

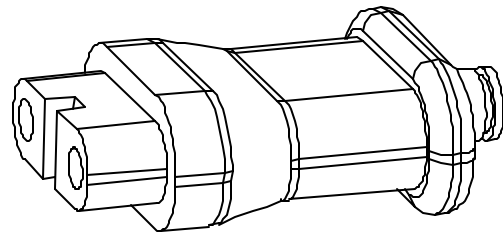
Available for 10-24 AND 10-32
Post Terminals

Ceramic terminal covers
provide a cost effective means
of reducing the risk of
electrical shock and electrical
shorts.



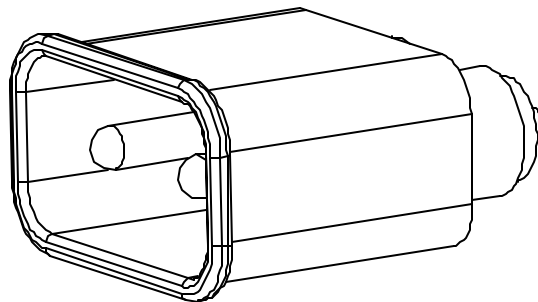
Type HW-900

Right-angle plug design



Type H-900

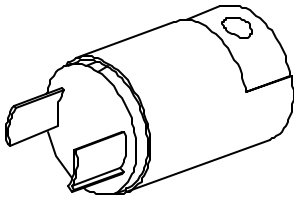
Straight plug design



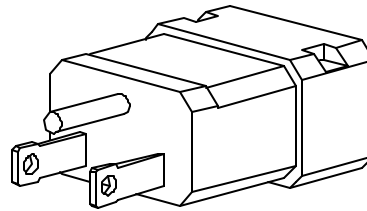
Type UT-900

Cup Assembly

ACCESSORIES - HEAVY DUTY QUICK-DISCONNECT PLUGS



P1



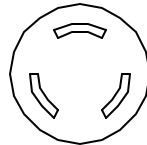
P3

P1



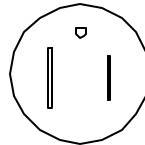
NEMA L1-15P

P2



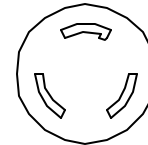
NEMA N/A

P3



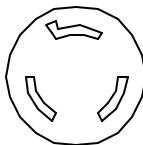
NEAM 5-15P

P4



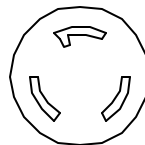
NEMA L5-15P

P1



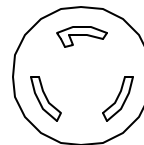
NEMA L5-15P

P2



NEMA L5-20

P3

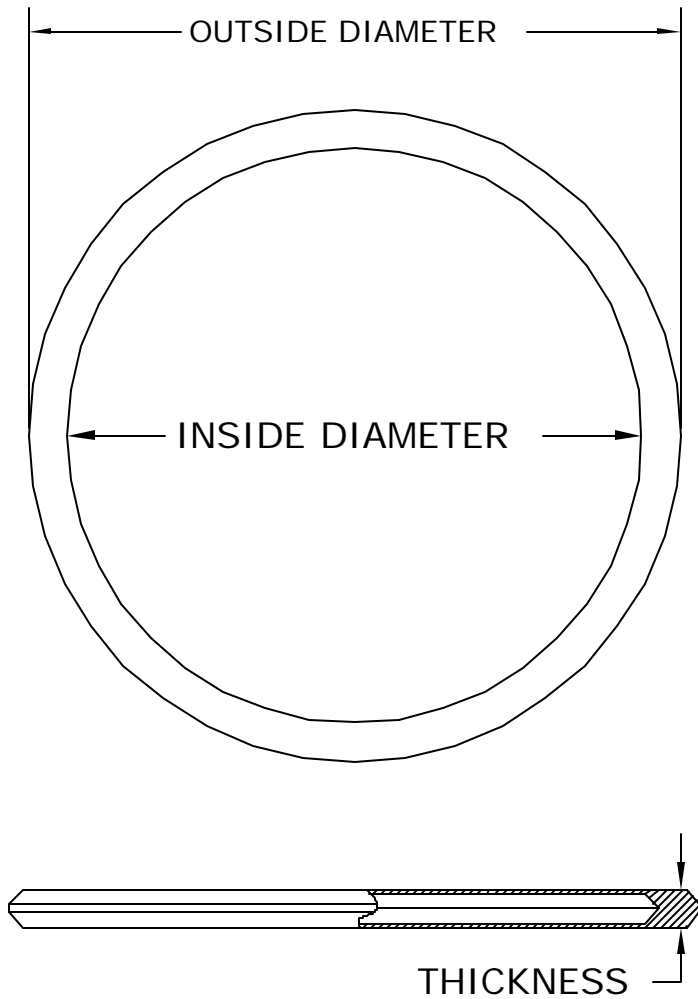


NEMA L5-30

REFERENCE	NEMA P or R	AMPS	VOLTS	PLUG PART NO.	RECEPTACLE PART NO.
20	L1-15	15A	125V	MG-20GA	MG-20GA
18	N/A	10A 15A	250V 125V	MG-18GA	MG-18GA
16	5-15	15A	125V	MG-16GA	MG-16GA
14	L5-15	15A	125V	MG-14GA	MG-14GA
12	L6-15	15A	250V	MG-12GA	MG-12GA
10	L6-20	20A	250V	MG-10GA	MG-10GA
10	L6-30	30A	250V	MG-10GA	MG-10GA

Note: Type P2 twist lock plug is not listed by UL, and is recommended for replacement use only in existing installations.

NOZZLE MANIFOLD SEAL RINGS FOR RUNNERLESS MOULDS



PART NUMBER	INSIDE DIAMETER	OUTSIDE DIAMETER	THICKNESS
716	0.437"	0.561"	0.062"
916	0.562"	0.686"	0.062"
1116	0.687"	0.812"	0.062"
1216	0.750"	0.875"	0.062"
1516	0.937"	1.062"	0.062"

PLATEN INSULATION BOARD

Acrolab Insulation grades are compression molded, glass mat reinforced polyester laminates. These thermoset materials are engineered to offer superior energy efficiency, temperature control, and durability for high temperature mold and platen insulation. Their physical properties include: high heat resistance, high compressive strength, low thermal conductivity, low moisture absorption, and exceptional durability. Our insulation machines easily and provides more precise temperature control and thermal uniformity to minimize or eliminate "cold spots" in a mold.

H320 Insulation Board

A tough and durable composite with high compressive strength and resistance to oil and fluid absorption. Recommended for use in operating temperatures up to 450 F, this material used as press insulation will result in energy and maintenance savings. Standard color is brown.

H330 Insulation Board

A thermoset insulation material with exceptional property retention at operating temperatures up to 550 F. Demonstrating superior compressive strength at high temperature, this grade provides extended use and greater maintenance and energy savings. Standard color is orange.

Insulation board is available sanded to a tolerance of + or - .002.

Available in thicknesses from 1/4" to 2" and 7mm to 25mm and sheet size 36" x 72", 48" x 60" and 48" x 96". Special thicknesses up to 2" and custom cut to size and pre-drilled panels can be ordered. Minimum quantities may apply.



TYPICAL PROPERTIES*

	ASTM	H320	H330
Thermal Conductivity			
(K Factor) BTU/Hr/Ft ² In° F	D-177	1.75	1.85
Coefficient of Thermal Expansion In./In./°C	D-696		
Moisture Absorption, % 3/8" Sanded	D-570	0.18	0.20
Impact Strength Izod Ft. Lbs./in.notch	D-256	10	13
Flexural Strength, PSI	D-790	23,000	22,800
Maximum Service Temperature		450°F	550°F
Compression Strength, PSI, Cond. A	D-696	44,300	44,000
@300°F		23,400	31,700
@400°F		16,100	30,600
@500°F		N/A	26,200

Comparative Properties of Press Insulation Materials*

Insulation Material	Cost Factor	Compression Strength, PSI	Moisture Absorption, %	K Factor	Maximum Operating Temp, °F	Impact Strength
Concrete Asbestos	1.0	14,000	22.00	4.50	600	0.60
Calcium Silicate	1.2	2,400	85.00	0.88	1,200	0.25
H320	2.9	44,300	0.18	1.75	450	10.0
H330	3.5	44,000	0.20	1.85	550	13.0
G-3 (Reinforced Phenolic)	6.0	50,000	1.50	2.15	350	6.50
G-11 (Reinforced Epoxy)	7.5	60,000	0.10	2.03	320	7.0
G-7 (Reinforced Silicone)	15.0	45,000	0.15	2.20	460	8.50
Mica	16.5	60,000	2.77	0.87	1,000	-

*Unless otherwise indicated, all properties published are based on tests performed on standard ASTM test samples and according to ASTM test methods. Values shown are for test samples made from production materials and they are believed to be conservative. No warranty is to be construed, however. In fabricated or molded form, parts may vary considerably from this standard test data. Where specific or unusual applications arise, tests should be made on actual parts, and test procedures agreed upon between Acrolab Ltd. and the customer.