

SPECIFICATION SHEET**PRODUCT NAME: HOT ROD SLEEVE™****ALIASES: BUILDERS KITS, HP COLOR SLEEVE, TENDER SAVER, THERMA-FLEX,****SECTION 1: APPLICATIONS**

Typical applications include: insulation of leads in carbon brushes, toasters, irons, coffee makers and other small heating appliances; thermal sensor leads; thermal and mechanical protection of automotive wire harnesses and insulated wires in domestic appliances and track, stage, and other lighting fixtures; outer coverings for hydraulic lines; double insulation for high reliability circuitry.

Industries Served

- Automotive
- Marine
- Heavy Duty
- Power Generation
- Appliance
- Fire Protection
- Foundries
- Petrochemical

**SECTION 2: FEATURES AND BENEFITS**

Its expandability and flexibility enables it to slip over irregular shapes and electrical connections to provide effective thermal, mechanical and electrical protection.

SECTION 3: TECHNICAL DATA

- Class 240 Insulation
- UL VW-1 recognized insulation – UL File #E80713.
- Applicable Specifications:
 - ASTM D 350 / 372.
 - MIL-Y-1140H
 - NEMA TF-2
 - Ford ESE-M12G17-B
- Available sizes: AWG #24 – 1 1/2"
- Packaging: standard spools, bulk spools, cut to length.
- Standard colors: natural (tan) & black. Other colors available are subject to factory quotation upon request.

Meets Coast Guard Spec. 164.009 for Incombustible Materials



Operating Range:	-59° C to 648° C
Dielectric Breakdown:	Grade C-3 insulation. No dielectric value guaranteed. Determined by space factor
Heat Age:	N/A
Dielectric constant:	N/A
Volume resistivity:	1014 ohm-cm @ 72°F and 500 Volts DC
Dissipation factor:	N/A
Cut through resistance:	Excellent
Oil resistance:	No swelling or disintegration
Fungus resistance:	Inert, requires no fungicide additives.
Rate of Burning:	Meets UL VW-1 flammability rating

NEMA Size	Nominal Diameter (inches)	Minimum Diameter (inches)	Maximum Diameter (inches)
24	0.024	0.020	0.027
22	0.029	0.025	0.032
20	0.036	0.032	0.039
18	0.044	0.040	0.049
17	0.049	0.045	0.054
16	0.056	0.051	0.061
15	0.062	0.057	0.067
14	0.069	0.064	0.074
13	0.077	0.072	0.082
12	0.086	0.081	0.091
11	0.096	0.091	0.101
10	0.107	0.102	0.112
9	0.119	0.114	0.124
8	0.135	0.129	0.141
7	0.148	0.144	0.158
6	0.166	0.162	0.178
5	0.186	0.182	0.198
4	0.208	0.204	0.224
3	0.234	0.229	0.249
2	0.263	0.258	0.278
1	0.294	0.289	0.311
5/16"	0.313	0.313	0.334
0	0.330	0.325	0.347
3/8"	0.387	0.375	0.399
7/16"	0.450	0.438	0.462

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NEMA Size	Nominal Diameter (inches)	Minimum Diameter (inches)	Maximum Diameter (inches)
1/2"	0.512	0.500	0.524
5/8"	0.640	0.625	0.655
3/4"	0.768	0.750	0.786
7/8"	0.893	0.875	0.911
1"	1.018	1.000	1.036
1 1/8"	1.144	1.125	1.161

Drawing for 204104:

Hot Rod Sleeve

Part No: 204104

