

Rocktherm® ZH Zero Halogen Vital Circuit Cable

Silicone Rubber Insulation
Low Smoke/Zero Halogen
XLPO Jacket

125°C, 600 Volt

Spec. RSS-2-016

Scope

Rocktherm® ZH silicone rubber insulated Zero Halogen Vital Circuit Power and Control Cable is a totally halogen-free construction for use in tunnels, stations or other confined areas where high concentrations of smoke and acid gas are unacceptable. The

silicone rubber insulation provides extended circuit integrity during a fire situation, which makes this cable well suited for emergency power, lighting, exhaust fans and other life-sustaining systems.

Features

- Extended circuit integrity
- Zero halogen insulation
- Zero halogen jacket
- Outstanding heat resistance
- Flame retardant
- Excellent electrical characteristics
- Very Low Smoke
- Oil, chemical, moisture and abrasion resistant
- Long life

Performance Standards

- Conductor in accordance with ASTM B-8 and B-33
- Insulation in accordance with ICEA S-95-658
- Jacket in accordance with UL 1277 Class XL/90°C and ICEA Publication T-33-655, Type II
- Cable passes ICEA T-30-520 vertical tray flame test (70,000 BTU/hr) and IEEE-383 1974 vertical tray flame test (70,000 BTU/hr)

Construction

Conductor:

Tin coated copper, Class "B" strand

Insulation:

Very low smoke, Rocktherm® silicone rubber

Covering:

Glass Braid

Circuit Identification:

ICEA Method 4, printed numbers, other colors are available

Fillers:

(When required)

Binder Tape:

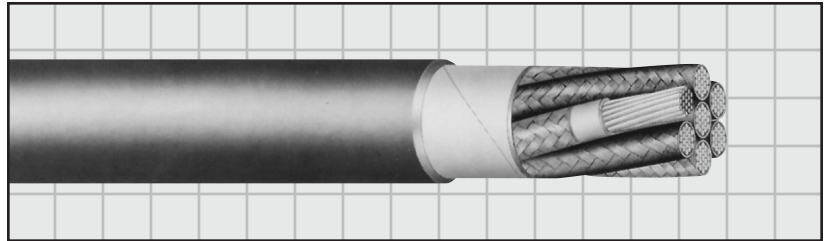
Helically applied

Jacket:

Heat, moisture, oil, chemical, ozone and sunlight resistant, flame retardant, low smoke/zero halogen, thermoset, cross-linked polyolefin (XLPO)

Rocktherm® ZH Zero Halogen Vital Circuit Cable

Silicone Rubber Insulation
Low Smoke/Zero Halogen
XLPO Jacket
125°C, 600 Volt
Spec. RSS-2-016



(14 AWG, 7 Strand) ICEA Design

| Product Code | Number of Conductors | Insulation Thickness | | Braid Thickness (Mils) | Outer Jacket Thickness (Mils) | Nominal Overall Diameter | | Approximate Net Weight (Lbs/M') |
|--------------|----------------------|----------------------|------|------------------------|-------------------------------|--------------------------|-------|---------------------------------|
| | | (Inch) | (mm) | | | (Inch) | (mm) | |
| R39-3030 | 2 | .045 | 1.14 | 7.5 | 45 | .46 | 11.68 | 120 |
| R39-3031 | 3 | .045 | 1.14 | 7.5 | 45 | .49 | 12.45 | 150 |
| R39-3032 | 4 | .045 | 1.14 | 7.5 | 60 | .57 | 14.48 | 200 |
| R39-3033 | 5 | .045 | 1.14 | 7.5 | 60 | .62 | 15.75 | 240 |
| R39-3034 | 7 | .045 | 1.14 | 7.5 | 60 | .68 | 17.27 | 270 |
| R39-3035 | 9 | .045 | 1.14 | 7.5 | 60 | .79 | 20.07 | 350 |
| R39-3036 | 12 | .045 | 1.14 | 7.5 | 80 | .93 | 23.62 | 470 |
| R39-3037 | 19 | .045 | 1.14 | 7.5 | 80 | 1.08 | 27.43 | 660 |
| R39-3038 | 27 | .045 | 1.14 | 7.5 | 80 | 1.29 | 32.77 | 900 |
| R39-3039 | 37 | .045 | 1.14 | 7.5 | 80 | 1.45 | 36.83 | 1190 |

(12 AWG, 7 Strand) ICEA Design

| | | | | | | | | |
|----------|----|------|------|-----|----|------|-------|------|
| R39-3040 | 2 | .045 | 1.14 | 7.5 | 45 | .45 | 11.43 | 150 |
| R39-3041 | 3 | .045 | 1.14 | 7.5 | 60 | .56 | 14.22 | 205 |
| R39-3042 | 4 | .045 | 1.14 | 7.5 | 60 | .62 | 15.75 | 250 |
| R39-3043 | 5 | .045 | 1.14 | 7.5 | 60 | .67 | 17.02 | 300 |
| R39-3044 | 7 | .045 | 1.14 | 7.5 | 60 | .73 | 18.54 | 350 |
| R39-3045 | 9 | .045 | 1.14 | 7.5 | 80 | .90 | 22.86 | 480 |
| R39-3046 | 12 | .045 | 1.14 | 7.5 | 80 | 1.01 | 25.65 | 595 |
| R39-3047 | 19 | .045 | 1.14 | 7.5 | 80 | 1.17 | 29.72 | 860 |
| R39-3048 | 27 | .045 | 1.14 | 7.5 | 80 | 1.41 | 35.81 | 1180 |
| R39-3049 | 37 | .045 | 1.14 | 7.5 | 80 | 1.58 | 40.13 | 1550 |

(10 AWG, 7 Strand) ICEA Design

| | | | | | | | | |
|----------|----|------|------|-----|-----|------|-------|------|
| R39-3050 | 2 | .045 | 1.14 | 7.5 | 60 | .58 | 14.73 | 210 |
| R39-3051 | 3 | .045 | 1.14 | 7.5 | 60 | .61 | 15.49 | 265 |
| R39-3052 | 4 | .045 | 1.14 | 7.5 | 60 | .67 | 17.02 | 330 |
| R39-3053 | 5 | .045 | 1.14 | 7.5 | 60 | .74 | 18.80 | 400 |
| R39-3054 | 7 | .045 | 1.14 | 7.5 | 60 | .80 | 20.32 | 470 |
| R39-3055 | 9 | .045 | 1.14 | 7.5 | 80 | .98 | 24.89 | 640 |
| R39-3056 | 12 | .045 | 1.14 | 7.5 | 80 | 1.10 | 27.94 | 800 |
| R39-3057 | 19 | .045 | 1.14 | 7.5 | 80 | 1.29 | 32.77 | 1160 |
| R39-3058 | 27 | .045 | 1.14 | 7.5 | 80 | 1.55 | 39.37 | 1600 |
| R39-3059 | 37 | .045 | 1.14 | 7.5 | 110 | 1.80 | 45.72 | 2240 |