

## HVT-Z-G/SG High Voltage Termination for shielded cables (5 kV-35 kV)

### FEATURES

- When the tubing is shrunk down, the coating softens and sticks to irregular surfaces, providing moisture seals as well as electrical stress control.
- TE's Raychem HVT-Z high-voltage terminations meet IEEE-48 standard Class I termination requirement.

### APPLICATIONS

- The market's most popular heat shrink terminations!
- Designed for Copper Tape Shield, Wire Shield, Unshield, and Lead Sheath cables from 5 kV to 35 kV

### BENEFITS

- The main termination component consists of TE's Raychem non-tracking tube together with a co-extruded stress control grading layer. This stress control layer is based on ceramic semi-conductor technology (ZnO) and provides superior discharge and impulse performance.
- Unlimited shelf life when stored in normal conditions



### PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Indoor Kit	Outdoor Kit	Min - Max Conductor Size		Min - Max Insulation Dia	Jacket O.D. (max)
<b>5/8 kV</b>		<b>5 kV 0.90</b>	<b>8 kV 0.115</b>		
<b>HVT-Z-80-G/SG</b>		#4-#1 AWG	#6-#2 AWG	0.35-0.60 (9-15)	0.95 (24)
<b>HVT-Z-81-G/SG</b>		1/0-250 kcmil	#1-4/0 AWG	0.60-0.95 (15-24)	1.20 (30)
<b>HVT-Z-82-G/SG</b>		300-500 kcmil	250-500 kcmil	0.80-1.25 (20-32)	1.50 (38)
<b>HVT-Z-83-G/SG</b>		600-1750 kcmil	600-1750 kcmil	1.10-1.75 (28-44)	2.10 (53)
<b>HVT-Z-84-G/SG</b>		1500-3500 kcmil	1500-2500 kcmil	1.60-2.45 (41-62)	2.75 (70)
<i>Installed Length 11.5" (295)</i>		<i>Can be cut shorter for use with MCK kits</i>		<i>No Skirts for Outdoor Operation*</i>	
<b>15 kV</b>		<b>15 kV .175-.220</b>			
<b>HVT-Z-151-G</b>	<b>HVT-Z-151-SG</b>	#4-1/0 AWG		0.60-0.95 (15-24)	1.20 (30)
<b>HVT-Z-152-G</b>	<b>HVT-Z-152-SG</b>	2/0-350 kcmil		0.80-1.25 (20-32)	1.50 (38)
<b>HVT-Z-153-G</b>	<b>HVT-Z-153-SG</b>	400-1000 kcmil		1.10-1.75 (28-44)	2.10 (53)
<b>HVT-Z-154-G</b>	<b>HVT-Z-154-SG</b>	1250-2500 kcmil		1.60-2.45 (41-62)	2.75 (70)
<i>Installed Length 11.5" (295)</i>				<i>1 Skirt for Outdoor Operation*</i>	
<b>25 kV/35 kV</b>		<b>25 kV 0.260</b>	<b>35 kV 0.345</b>		
<b>HVT-Z-252/352-G</b>	<b>HVT-Z-252/352-SG</b>	#2-250 kcmil	#1-1/0 AWG	0.80-1.25 (20-32)	1.50 (38)
<b>HVT-Z-253/353-G</b>	<b>HVT-Z-253/353-SG</b>	300-750 kcmil	2/0-500 kcmil	1.10-1.75 (28-44)	2.10 (53)
<b>HVT-Z-254/354-G</b>	<b>HVT-Z-254/354-SG</b>	1000-2000 kcmil	750-1750 kcmil	1.60-2.45 (41-62)	2.75 (70)
<i>Installed Length 19.0" (485)</i>				<i>4 Skirts for Outdoor Operation*</i>	

\*Additional skirts sold separately. Refer to Accessory and Tool section.

**PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)**

Indoor Kit	Outdoor Kit	Min - Max Conductor Size		Min - Max Insulation Dia.	Jacket O.D. (max)
<b>HVT-Z Termination with Aluminum Shear Bolt Terminal</b>					
<b>5/8 kV</b>		<b>5 kV</b>	<b>8 kV</b>		
<b>HVT-Z-81-G/SG-T5</b>		1/0-250 kcmil	#1-4/0 AWG	0.60-0.95 (15-24)	1.20 (30)
<b>HVT-Z-82-G/SG-T5</b>		300-350 kcmil	250-350 kcmil	0.80-1.07 (20-27)	1.50 (38)
<b>HVT-Z-82-G/SG-T8</b>		350-500 kcmil	350-500 kcmil	0.85-1.25 (22-32)	1.50 (38)
<b>HVT-Z-83-G/SG-T9</b>		600-1000 kcmil	600-1000 kcmil	1.10-1.40 (28-36)	2.10 (53)
<i>No Skirts for Outdoor Operation*</i>					
<b>15 kV</b>		<b>15 kV</b>			
<b>HVT-Z-151-G-T5</b>	<b>HVT-Z-151-SG-T5</b>	#2-1/0 AWG		0.65-0.95 (17-24)	1.20 (30)
<b>HVT-Z-152-G-T5</b>	<b>HVT-Z-152-SG-T5</b>	2/0-350 kcmil		0.80-1.25 (20-32)	1.50 (38)
<b>HVT-Z-153-G-T8</b>	<b>HVT-Z-153-SG-T8</b>	400-500 kcmil		1.10-1.355 (28-34)	2.10 (53)
<b>HVT-Z-153-G-T9</b>	<b>HVT-Z-153-SG-T9</b>	600-1000 kcmil		1.215-1.65 (32-42)	2.10 (53)
<i>1 Skirt for Outdoor Operation*</i>					
<b>25 kV/35 kV</b>		<b>25 kV (0.260")</b>	<b>35 kV (0.345")</b>		
<b>HVT-Z-252/352-G-T5</b>	<b>HVT-Z-252/352-SG-T5</b>	#2-250 kcmil	#1-1/0 AWG	0.80-1.25 (20-32)	1.50 (38)
<b>HVT-Z-253/353-G-T5</b>	<b>HVT-Z-253/353-SG-T5</b>	300-350 kcmil	2/0-350 kcmil	1.10-1.50 (28-38)	2.0 (51)
<b>HVT-Z-253/353-G-T8</b>	<b>HVT-Z-253/353-SG-T8</b>	350-750 kcmil	350-500 kcmil	1.185-1.70 (30-43)	2.10 (53)
<b>HVT-Z-254/354-G-T9</b>	<b>HVT-Z-254/354-SG-T9</b>	600-1000 kcmil	600-1000 kcmil	1.60-1.79 (41-45)	2.75 (70)
<i>4 Skirts for Outdoor Operation*</i>					

\*Additional skirts sold separately. Refer to Accessory and Tool section.

**ADDITIONAL PRODUCT INFORMATION**

- Select the appropriate catalog number. All selections are based on the typical dimensions of 100% and 133% insulated cables manufactured in accordance with the data contained in AEIC CS5 and AEIC CS6, as well as the dimensions of commonly used connectors. Nominal Insulation thickness (100%): 15 kV: 175 mils, 25 kV: 260 mils, 35 kV: 345 mils. Nominal thickness (133%): 15 kV: 220 mils.
- For cables manufactured to other specifications, confirm selection with cable dimensions.
- Some kits do not contain connectors. Order compression, shear bolt, or solder connectors separately.
- Cable mounting brackets are available to accommodate cable diameters from 0.80-2.40 inches (20-46 mm) refer to Accessory and Tools section for ordering information.
- Standard package: 1 kit/box.
- Refer to the Application and Technical Specification section for testing information.
- Related test reports: 15 kV: EDR-5322, EDR-5323, 25 kV: EDR-5473 35 kV: EDR-5481