

HVT-G/SG 1/C

Shielded power cable (5–35 kV)

Superior High-contamination withstand and non-tracking

The unique high-voltage insulating sleeve is a field-proven, nontracking, and erosion-resistant material that does not require periodic cleaning. The material properties have been formulated to be thermally stable and highly resistant to UV degradation, weathering and environmental pollution.

Positive environmental seal

The cable, along with external ground, is sealed from moisture ingress using

Tyco Electronics' proven high-voltage, heat-activated sealing system. No field engineering or additional accessory kits are required.

Rated to IEEE-48-1990, class 1. Indoor (in enclosures) or outdoor (weather-exposed) use. For use on copper tape, wire shield, lead sheath, and UniShield cables.



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Selection information: (dimensions in inches/millimeters)

Catalog number		5 kV	8 kV	Insulation diameter (min.–max.)	Jacket O.D. (max.)
Indoor	Outdoor	conductor size (AWG/kcmil)	conductor size (AWG/kcmil)		
Conductor size (AWG/kcmil) 5–8 kV					
HVT-80-G	HVT-80-SG	#4–#1*	#6–#2	0.35–0.60 (9–15)	0.95 (24)
HVT-81-G	HVT-81-SG	1/0–250*	#1–4/0	0.60–0.95 (15–24)	1.20 (30)
HVT-82-G	HVT-82-SG	300–500*	250–500	0.80–1.25 (20–32)	1.50 (38)
HVT-83-G	HVT-83-SG	600–1750*	600–1750	1.10–1.75 (28–44)	2.10 (53)
HVT-84-G	HVT-84-SG	1500–2500*	2000–2500	1.60–2.45 (41–62)	2.75 (70)
Installed length: 10.5 (267)					
15 kV					
HVT-151-G	HVT-151-SG	#4–1/0		0.60–0.95 (15–24)	1.20 (30)
HVT-152-G	HVT-152-SG	2/0–350		0.80–1.25 (20–32)	1.50 (38)
HVT-153-G	HVT-153-SG	400–1000		1.10–1.65 (28–42)	2.10 (53)
HVT-154-G	HVT-154-SG	1250–2500		1.60–2.45 (41–62)	2.75 (70)
Installed length: 15 (381)					
25 kV					
HVT-252-G	HVT-252-SG	#2–250		0.80–1.25 (20–32)	1.50 (38)
HVT-253-G	HVT-253-SG	300–750		1.10–1.70 (28–43)	2.10 (53)
HVT-254-G	HVT-254-SG	1000–1750		1.60–2.45 (41–62)	2.75 (70)
HVT-255-G	HVT-255-SG	2000–2500		2.05–3.00 (52–76)	3.45 (88)
Installed length: 28 (711)					
35 kV					
HVT-352-G	HVT-352-SG	#1–1/0		0.80–1.25 (20–32)	1.50 (38)
HVT-353-G	HVT-353-SG	2/0–500		1.10–1.85 (28–47)	2.10 (53)
HVT-354-G	HVT-354-SG	750–1750		1.60–2.45 (41–62)	2.75 (70)
HVT-355-G	HVT-355-SG	2000–2500		2.05–3.00 (52–76)	3.45 (88)
Installed length: 33 (838)					

Ordering information:

- Select the appropriate catalog number. Selections are based on the typical dimensions of 100% insulated cables manufactured in accordance with data contained in AEIC CS5-1987 and AEIC CS6-1987, as well as the dimensions of commonly used connectors.
Nominal insulation thickness (100%): 5 kV: 90 mils; 8 kV: 115 mils; 15 kV: 175 mils; 25 kV: 260 mils; 35 kV: 345 mils.
Nominal insulation thickness (133%): 15 kV: 220 mils.
- If using 5–8 kV (115-mil) cable, use 8 kV selection.
- For cables manufactured to other specifications, confirm selection with cable dimensions.
- Kits do not contain connectors; order compression or solder connectors separately.
- All kits include a solderless ground connection. Outdoor (-SG) kits include skirts for outdoor use. To order skirts separately, see page 125.
- Standard package: Three single-conductor kits/box.
- See page 104 for testing information.
- Related test reports:
5–8 kV: EDR 5217
15 kV: EDR 5218
25 kV: EDR 5219
35 kV: EDR 5222
- See next page for 3/C modification kits.
- Miscellaneous accessories are found on page 94.
- Cable mounting brackets are available to accommodate cable diameter. See page 123.