

**Medium Voltage
Utility Cables**

**Longitudinal Corrugated Tape Shield by
Hendrix & Kerite (LCT Shield)**



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Hendrix (TRXLPE) And Kerite (DR-EPR) 15-25kV LCT SHIELD Medium Voltage Utility Cables

Single conductor cable with stranded or solid aluminum or stranded copper conductors, either in TRXLPE or Discharge Resistant EPR (DR-EPR).

The Hendrix TRXLPE design is a true triple extruded insulation system consisting of a thermoset semiconducting conductor shield and high dielectric strength TRXLPE insulation.

The Kerite DR-EPR design consists of the industry unique, proprietary insulation system consisting of Permashield®, a non-conducting stress control layer over the conductor, plus Kerite's own field proven Discharge Resistant EPR.

Both designs employ a thermoset semiconducting insulation shield and a linear low-density non-conductive polyethylene (LLDPE) jacket with 3 red stripes. A transversely corrugated copper tape is longitudinally applied over the insulation shield with an overlap. The cable is sealed at the overlap.

Our cable design is effective in impeding moisture ingress into the insulation system and accommodates the expansion and contraction of the cable during thermal cycling.

Specifications and ratings

AEIC- AEIC CS8

ICEA- ICEA S-97-682

For 90°C continuous, 130°C emergency, 250°C short-circuit operation

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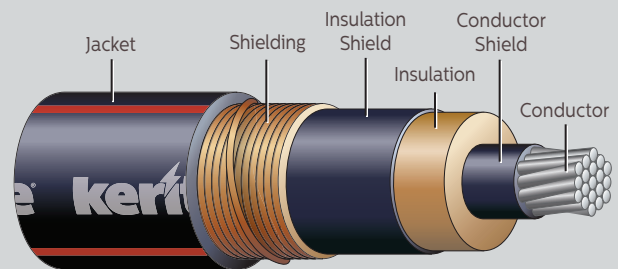
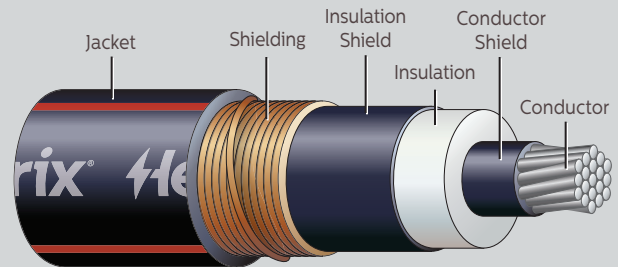
- Conductor – Compressed Aluminum (filled)
- Conductor Shield – Semi Conducting Layer
- Insulation – TRXLPE
- Insulation Shield – Semi-Conducting EzStrip® Layer
- Shielding – 8 mil Corrugated Copper Tape
- Jacket – Non-Conducting Polyethylene (LLDPE) with 3 Red Stripes

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- Conductor – Compressed Aluminum (filled)
- Conductor Shield – Non-Conducting Permashield® Stress Control Layer
- Insulation – Discharge Resistant EPR
- Insulation Shield – Semi-Conducting Free Strip Layer
- Shielding – 8 mil Corrugated Copper Tape
- Jacket – Non-Conducting Polyethylene (LLDPE) with 3 Red Stripes

Medium Voltage Utility Cable

15kV LCT Shield Aluminum Conductor
(133% – 220 mil)



Aluminum	Size (AWG/kcmil)	No. of Strands	O.D. Over Insulation (Inches)	220 mil Insulation (133%)			
				Jacket		Cable Weight (lbs/ft)	
				Thickness (mils)	O.D. (inches)	TRXLPE	DR-EPR
	500	37	1.275	80	1.595	1.275	1.390
	750	61	1.465	110	1.855	1.760	1.835
	1000	61	1.625	110	2.010	2.125	2.220

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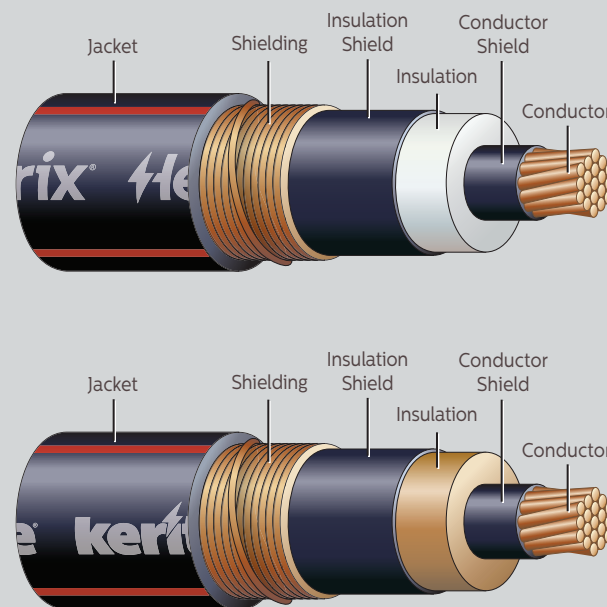
- Conductor – Compressed Copper (non-filled)
- Conductor Shield – Semi Conducting Layer
- Insulation – TRXLPE
- Insulation Shield – Semi-Conducting EzStrip® Layer
- Shielding – 8 mil Corrugated Copper Tape
- Jacket – Non-Conducting Polyethylene (LLDPE) with 3 Red Stripes

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- Conductor – Compressed Copper (non-filled)
- Conductor Shield – Non-Conducting Permashield® Stress Control Layer
- Insulation – Discharge Resistant EPR
- Insulation Shield – Semi-Conducting Free Strip Layer
- Shielding – 8 mil Corrugated Copper Tape
- Jacket – Non-Conducting Polyethylene (LLDPE) with 3 Red Stripes

Medium Voltage Utility Cable

15kV LCT Shield Copper Conductor
 (133% – 220 mil)



Copper	Size (AWG/kcmil)	No. of Strands	O.D. Over Insulation (Inches)	220 mil Insulation (133%)			
				Jacket		Cable Weight (lbs/ft)	
				Thickness (mils)	O.D. (inches)	TRXLPE	DR-EPR
	500	37	1.275	80	1.595	2.335	2.450
	750	61	1.465	110	1.855	3.275	3.430
	1000	61	1.625	110	2.010	4.215	4.345

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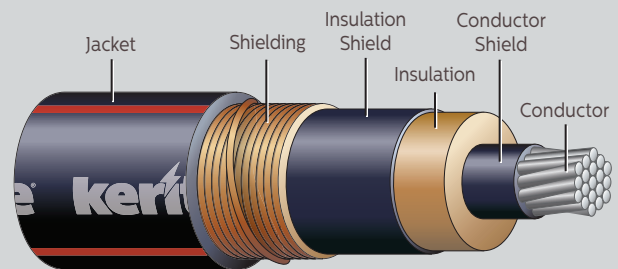
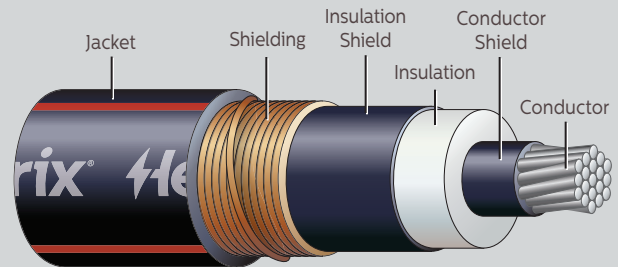
- Conductor – Compressed Aluminum (filled)
- Conductor Shield – Semi Conducting Layer
- Insulation – TRXLPE
- Insulation Shield – Semi-Conducting EzStrip® Layer
- Shielding – 8 mil Corrugated Copper Tape
- Jacket – Non-Conducting Polyethylene (LLDPE) with 3 Red Stripes

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Medium Voltage Utility Cable

25kV LCT Shield Compressed Aluminum Conductor
(100% – 260 mil)



Aluminum	Size (AWG/kcmil)	No. of Strands	O.D. Over Insulation (Inches)	260 mil Insulation (100%)			
				Jacket		Cable Weight (lbs/ft)	
				Thickness (mils)	O.D. (inches)	TRXLPE	DR-EPR
	500	37	1.360	80	1.680	1.375	1.510
	750	61	1.555	110	1.940	1.830	1.990
	1000	61	1.700	110	2.090	2.240	2.370

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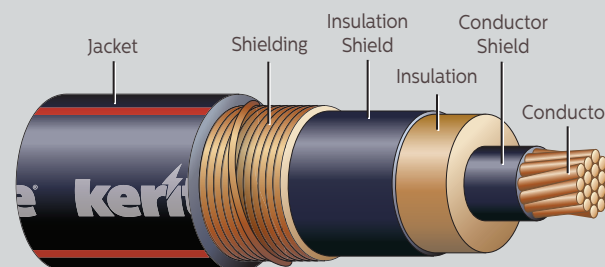
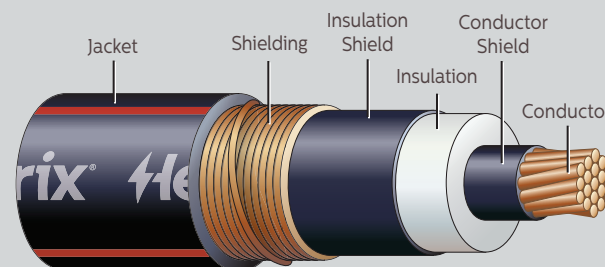
- Conductor – Compressed Copper (non-filled)
- Conductor Shield – Semi Conducting Layer
- Insulation – TRXLPE
- Insulation Shield – Semi-Conducting EzStrip® Layer
- Shielding – 8 mil Corrugated Copper Tape
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Medium Voltage Utility Cable

25kV LCT Shield Compressed Aluminum Conductor
 (100% – 260 mil)



Copper	Size (AWG/kcmil)	No. of Strands	O.D. Over Insulation (Inches)	260 mil Insulation (100%)			
				Jacket		Cable Weight (lbs/ft)	
				Thickness (mils)	O.D. (inches)	TRXLPE	DR-EPR
	500	37	1.360	80	1.680	2.436	2.565
	750	61	1.555	110	1.940	3.365	3.585
	1000	61	1.700	110	2.090	4.334	4.495



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