

**POWER**⚡**CABLE**  
**hendrix**® **kerite**®

**Wind Power –  
Collection Grid Cable**



## Reference Standards

**ANSI/ICEA S-94-649** Standard for Concentric Neutral Cables Rated 5 through 46 kV.

**AEIC CS8** Specification for Extruded Dielectric, Shielded Power Cables Rated 5 through 46 kV.

**NEMA WC26/EEMAC 201** Binational Wire and Cable Packaging Standard.

## Conductor

Class B compressed stranding 1350 EC Grade Aluminum with strands filled to longitudinally block moisture migration.

## Conductor Shield

Carbon black based semi-conducting cross-linked polymer that is compatible with and firmly bonded to the insulation and readily removable from the conductor.

## Insulation

Unfilled tree-retardant crosslinked polyethylene with diameters in accordance with the referenced ANSI/ICEA Standard for 100% insulated 35 kV cables (nominal 345 mil wall thickness).

## Insulation Shield

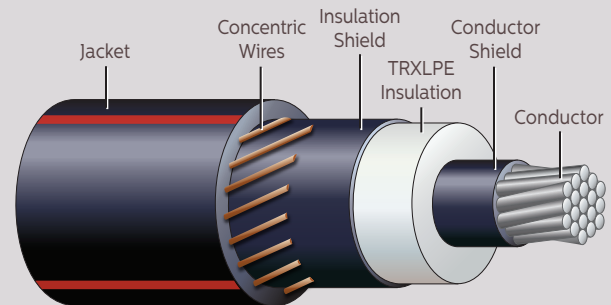
Carbon black based semiconducting cross-linked polymer that is compatible with the insulation. The EzStrip® shield is designed to strip towards the lower end of the 3 to 24 ANSI/ICEA allowable strip tension range.

## Concentric Neutrals

The customer chosen neutral design is manufactured with helically applied bare copper wires.

## Collection Grid Cable

35kV Compressed Aluminum Conductor 90°C  
(100% – 345 mil)



## Overall Jacket

The extruded jacket will tightly encapsulate the concentric neutral with non-conducting polyethylene compound (LLDPE or XLPE). Additional jacket longitudinal water blocking is available upon request.

## Leading Long Term Cable Quality

- Tri-Head Triple Extrusion
- Dry Curing TRXLPE Insulation
- Certified Class 10,000 Railcar Clean Room TRXLPE
- All Core Compound Certified Class 100 Conveying Air
- High Long-Term Dielectric Strength
- Low Power Losses in Insulation

# Typical 35 kV Underground Distribution Cables Installed in Wind Farms

## 345 mils (Nominal) TRXLPE Insulation

Compressed Conductor Class B Strand				Diameter (inches) <sup>(1)</sup>		Minimum Jacket Thickness (inches)	LLDPE JACKET				XLPE Jacket		
Cond. Size (AWG/ kcmil)	Nom. Cond. Dia	Wires	AL Weight (lb/1000ft) <sup>(3)</sup>	Min. Insulation OD	Max. Insulation OD		Encapsulating Jacket	Copper Neutral				Copper Neutral <sup>(2)</sup>	
						Neutral Size		No. of Wires	Wire Size (AWG)	CU Weight (lb/1000ft) <sup>(3)</sup>	No. of Wires	Wire Size (AWG)	CU Weight (lb/1000ft) <sup>(3)</sup>
1/0	0.356	19	99	1.045	1.145	0.045	Full	16	14	210	12	14	158
1/0	0.356	19	99	1.045	1.145	0.045	1/2	8	14	105	6	14	79
1/0	0.356	19	99	1.045	1.145	0.045	1/3	6	14	79	6	14	79
3/0	0.456	19	157	1.140	1.240	0.045	Full	16	12	335	12	12	249
3/0	0.456	19	157	1.140	1.240	0.045	1/2	13	14	171	10	14	131
3/0	0.456	19	157	1.140	1.240	0.045	1/3	9	14	118	7	14	92
4/0	0.512	19	199	1.195	1.295	0.045	Full	20	12	419	15	12	311
4/0	0.512	19	199	1.195	1.295	0.045	1/2	16	14	210	12	14	158
4/0	0.512	19	199	1.195	1.295	0.045	1/3	11	14	144	8	14	105
350	0.661	37	329	1.355	1.455	0.070	1/3	18	14	236	13	14	171
350	0.661	37	329	1.355	1.455	0.070	1/6	9	14	118	7	14	92
500	0.789	37	469	1.480	1.580	0.070	1/3	16	12	335	12	12	249
500	0.789	37	469	1.480	1.580	0.070	1/6	13	14	171	10	14	131
750	0.968	61	704	1.670	1.770	0.070	1/6	12	12	249	14	14	184
750	0.968	61	704	1.670	1.770	0.070	1/12	10	14	131	8	14	105
1000	1.117	61	939	1.815	1.920	0.070	1/6	16	12	335	12	12	249
1000	1.117	61	939	1.815	1.920	0.070	1/12	13	14	171	10	14	131
1250	1.251	61 <sup>(4)</sup>	1173	1.960	2.065	0.070	1/6	20	12	419	15	12	311
1250	1.251	61 <sup>(4)</sup>	1173	1.960	2.065	0.070	1/12	16	14	210	12	14	158

<sup>(1)</sup> Diameters are in accordance with ANSI/ICEA S-94-649 for Concentric Neutral Cables Rated 5kV-46kV.

<sup>(2)</sup> The concentric neutrals for the XLPE jacketed cable are designed per ANSI/ICEA P-45-482 to provide the equivalent shield fault capacity for that of the corresponding neutrals of the same cable except with an LLDPE jacket, based on 90°C rating.

<sup>(3)</sup> Approximate conductor and neutral weight are per ANSI/ICEA S-94-649.

<sup>(4)</sup> Hendrix proprietary 61 wire conductor.



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