



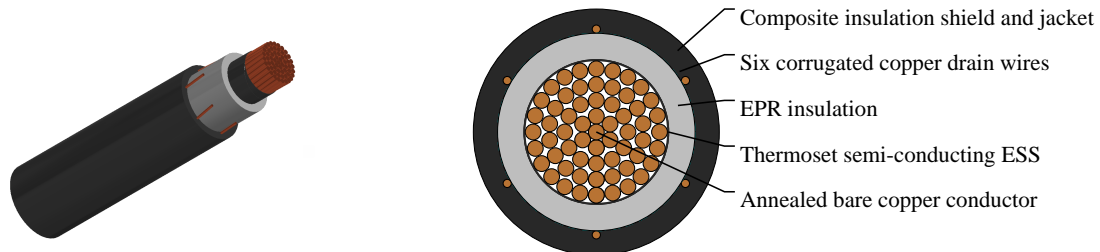
# Caledonian

Industrial Cables (UL Standard)

[www.caledonian-cables.com](http://www.caledonian-cables.com)

[marketing@caledonian-cables.com](mailto:marketing@caledonian-cables.com)

EPR/Copper Wire Shield/CPE, Medium-Voltage Power, Shielded 5KV and 8KV, UL Type MV-105, 133% / 100% Ins. Levels, 115 Mils 1C500AWG



## APPLICATIONS

These cables are suitable for use in wet or dry locations when installed in accordance with NEC, use in aerial, conduit, open tray and underground duct installations and use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4 (A) (5). Besides, they are installed in a broad range of commercial, industrial and utility projects such as pulp and paper mills, petrochemical plants, steel mills, textile mills, water and sewage treatment facilities, environmental protection systems, railroads, mines and fossil fuel utility generating stations.

## STANDARDS

National Electric Code (NEC)

ICEA S-93-639/NEMA WC74

UL 1072

ICEA S-97-682

AEIC CS8

Meets EPA 40 CFR, Part 261 for leachable lead content per TCLP method

UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test

IEEE 1202 (70,000 BTU/hr)/CSA FT4

Optional Flame Tests: ICEA T-29-520 (210,000 BTU/hr)

## VOLTAGE RATING

5KV\_8KV

## CABLE CONSTRUCTION

Conductor: Annealed bare copper Class B strand.

Extruded Strand Shield (ESS): Extruded thermoset semi-conducting stress-control layer over conductor.

Insulation: Ethylene Propylene Rubber (EPR) insulation colored to contrast with black conducting shield layers.

Composite Insulation Shield and Jacket: Six corrugated copper drain wires embedded in composite layers of semi-conducting thermoset copolymer and semi-conducting black flame-retardant Chlorinated Polyethylene (CPE).

## DIMENSION AND PARAMETERS



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AWG Size	Conductor Diameter	Conductor Diameter	Nominal Diameter over Insulation (min.)	Nominal Diameter over Insulation (min.)	Nominal Diameter over Insulation (max.)	Nominal Diameter over Insulation (max.)	Drain Wire Size	Approx. Overall Diameter	Approx. Overall Diameter	Approx. Weight	Approx. Weight	Ampacity In Air	Ampacity GND.
	in	mm	in	mm	in	mm	AWG	in	mm	kg/km	LBS/MFT		
500	0.74	18.8	0.99	25.15	1.065	27.05	17	1.24	31.5	2980	2003	535	500