

SPEC # 5613

5kV 1/C Cu EPR (133%) CTS PVC MV-105

Power Cable 5kV Single Conductor Copper, Ethylene Propylene Rubber (EPR) 133% insulation and 8kV Single Conductor Copper, Ethylene Propylene Rubber (EPR) 100% insulation Helically wrapped Copper Tape Shield, Polyvinyl Chloride (PVC) Jacket.



CONSTRUCTIONS

- | | | | |
|---|--------------------|---|---|
| 1 | Conductor | : | Class B compressed stranded bare copper per ASTM B3 and ASTM B8 |
| 2 | Conductor Shield | : | Extruded semi-conducting cross-linked copolymer |
| 3 | Insulation | : | Ethylene propylene rubber (EPR) 133%-5kV, 100%-8kV insulation level |
| 4 | Insulation Shield | : | Extruded semi-conducting cross-linked copolymer |
| 5 | Copper Tape Shield | : | Helically overlapped copper tape about 25% overlap |
| 6 | Binder | : | Polypropylene tape |
| 7 | Jacket | : | Extruded polyvinyl chloride (PVC) |

APPLICATIONS AND FEATURES

GAON CABLE's 5/8kV cables are designed for versatile applications in both wet or dry environments, including conduits, ducts, troughs, trays, direct burial, and situations where exceptional electrical properties are essential. These cables can operate continuously with a conductor temperature not exceeding 105°C for normal operation, 140°C for emergency overload, and 250°C for short circuit conditions.

ENGINEERING SPECIFICATIONS

- ASTM B3 Soft or annealed copper
- ASTM B8 Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft
- NEMA WC70/ICEA S-93-639 5-46 kV Shielded Power Cable
- UL 1072 Medium Voltage Power Cables ; UL Listed E252502
- UL 1685 Flame Exposure Test

SPEC # 5613

5kV 1/C Cu EPR (133%) CTS PVC MV-105

Table 1 Measurements and Weights

Size of Conductor	Conductor Dia.		Insulation Dia.		Jacket Thickness (min.)		Approx. Overall Dia.		Max. Conductor Resistance (20 ℃)		Approx. Net Weight	
	AWG or KCMIL	mm	in	Mm	in	mm	in	mm	in	Ω/km	Ω/1000ft	kg/km
1/0	9.1	0.359	16.6	0.66	1.78	0.070	23.6	0.93	0.3487	0.1063	1036	696
2/0	10.1	0.398	17.6	0.70	1.78	0.070	24.6	0.97	0.2766	0.08432	1200	806
3/0	11.4	0.449	18.9	0.75	1.78	0.070	25.9	1.02	0.2194	0.06688	1403	943
4/0	12.8	0.504	20.3	0.80	1.78	0.070	27.3	1.08	0.1722	0.05248	1649	1108
250	14.0	0.552	21.7	0.86	1.78	0.070	28.7	1.13	0.1473	0.04488	1879	1263
350	16.5	0.650	24.2	0.96	1.78	0.070	31.2	1.23	0.1052	0.03206	2423	1628
500	19.7	0.776	27.4	1.08	1.78	0.070	34.4	1.36	0.07287	0.02222	3218	2163
750	24.2	0.953	32.1	1.27	1.78	0.070	39.1	1.54	0.04858	0.01481	4547	3056
1000	27.9	1.099	35.8	1.41	2.54	0.100	44.4	1.75	0.03643	0.01111	5989	4024

SPEC # 5613

15kV 1/C Cu EPR (100%) CTS PVC MV-105

Power Cable 15kV Single Conductor Copper, Ethylene Propylene Rubber (EPR) 100% insulation Helically wrapped Copper Tape Shield, Polyvinyl Chloride (PVC) Jacket.



CONSTRUCTIONS

- | | | | |
|---|--------------------|---|---|
| 1 | Conductor | : | Class B compressed stranded bare copper per ASTM B3 and ASTM B8 |
| 2 | Conductor Shield | : | Extruded semi-conducting cross-linked copolymer |
| 3 | Insulation | : | Ethylene propylene rubber (EPR) 100% |
| 4 | Insulation Shield | : | Extruded semi-conducting cross-linked copolymer |
| 5 | Copper Tape Shield | : | Helically overlapped copper tape about 25% overlap |
| 6 | Binder | : | Polypropylene tape |
| 7 | Jacket | : | Extruded polyvinyl chloride (PVC) |

APPLICATIONS AND FEATURES

GAON CABLE's 15kV cables are designed for versatile applications in both wet or dry environments, including conduits, ducts, troughs, trays, direct burial, and situations where exceptional electrical properties are essential. These cables can operate continuously with a conductor temperature not exceeding 105°C for normal operation, 140°C for emergency overload, and 250°C for short circuit conditions.

ENGINEERING SPECIFICATIONS

- ASTM B3 Soft or annealed copper
- ASTM B8 Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft
- NEMA WC70/ICEA S-93-639 5-46 kV Shielded Power Cable
- UL 1072 Medium Voltage Power Cables ; UL Listed E252502
- UL 1685 Flame Exposure Test

SPEC # 5613

15kV 1/C Cu EPR (100%) CTS PVC MV-105

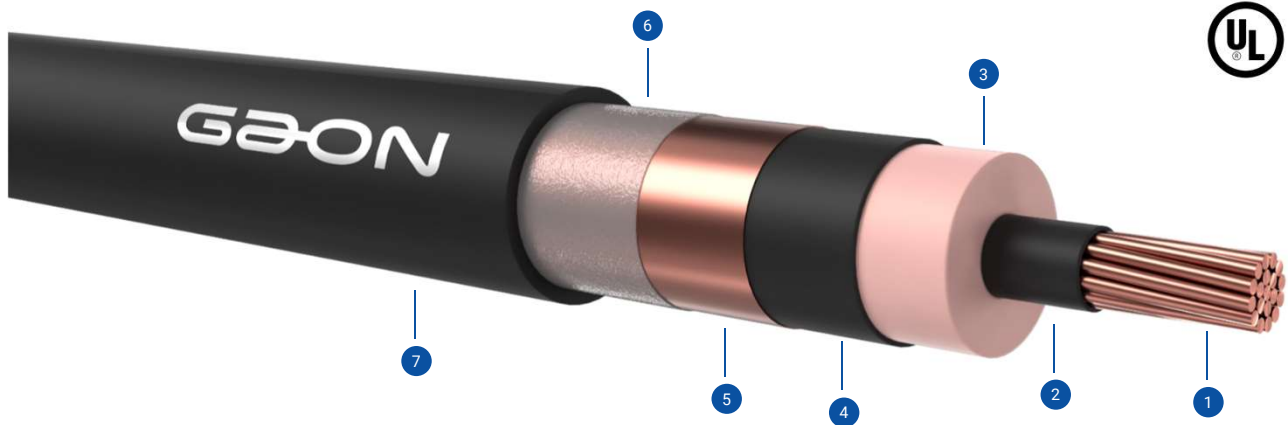
Table 1 Measurements and Weights

Size of Conductor	Conductor Dia.		Insulation Dia.		Jacket Thickness (min.)		Approx. Overall Dia.		Max. Conductor Resistance (20℃)		Approx. Net Weight	
	mm	in	mm	in	mm	in	mm	in	Ω/km	Ω/1000ft	kg/km	lbs/1000ft
1/0	9.1	0.359	19.3	0.76	1.78	0.070	26.3	1.04	0.3487	0.1063	1174	789
2/0	10.1	0.398	20.3	0.80	1.78	0.070	27.3	1.08	0.2766	0.08432	1343	902
3/0	11.4	0.449	21.6	0.86	1.78	0.070	28.6	1.13	0.2194	0.06688	1552	1043
4/0	12.8	0.504	23.0	0.91	1.78	0.070	30.0	1.19	0.1722	0.05248	1804	1213
250	14.0	0.552	24.4	0.97	1.78	0.070	31.4	1.24	0.1473	0.04488	2042	1372
350	16.5	0.650	26.9	1.06	1.78	0.070	33.9	1.34	0.1052	0.03206	2598	1746
500	19.7	0.776	30.1	1.19	1.78	0.070	37.1	1.47	0.07287	0.02222	3409	2291
750	24.2	0.953	34.8	1.38	1.78	0.070	41.8	1.65	0.04858	0.01481	4761	3199
1000	27.9	1.099	38.5	1.52	2.54	0.100	47.1	1.86	0.03643	0.01111	6230	4187

SPEC # 5613

15kV 1/C Cu EPR (133%) CTS PVC MV-105

Power Cable 15kV Single Conductor Copper, Ethylene Propylene Rubber (EPR) 133% insulation Helically wrapped Copper Tape Shield, Polyvinyl Chloride (PVC) Jacket.



CONSTRUCTIONS

- | | | | |
|---|--------------------|---|---|
| 1 | Conductor | : | Class B compressed stranded bare copper per ASTM B3 and ASTM B8 |
| 2 | Conductor Shield | : | Extruded semi-conducting cross-linked copolymer |
| 3 | Insulation | : | Ethylene propylene rubber (EPR) 133% |
| 4 | Insulation Shield | : | Extruded semi-conducting cross-linked copolymer |
| 5 | Copper Tape Shield | : | Helically overlapped copper tape about 25% overlap |
| 6 | Binder | : | Polypropylene tape |
| 7 | Jacket | : | Extruded polyvinyl chloride (PVC) |

APPLICATIONS AND FEATURES

GAON CABLE's 15kV cables are designed for versatile applications in both wet or dry environments, including conduits, ducts, troughs, trays, direct burial, and situations where exceptional electrical properties are essential. These cables can operate continuously with a conductor temperature not exceeding 105°C for normal operation, 140°C for emergency overload, and 250°C for short circuit conditions.

ENGINEERING SPECIFICATIONS

- ASTM B3 Soft or annealed copper
- ASTM B8 Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft
- NEMA WC70/ICEA S-93-639 5-46 kV Shielded Power Cable
- UL 1072 Medium Voltage Power Cables ; UL Listed E252502
- UL 1685 Flame Exposure Test

SPEC # 5613

15kV 1/C Cu EPR (133%) CTS PVC MV-105

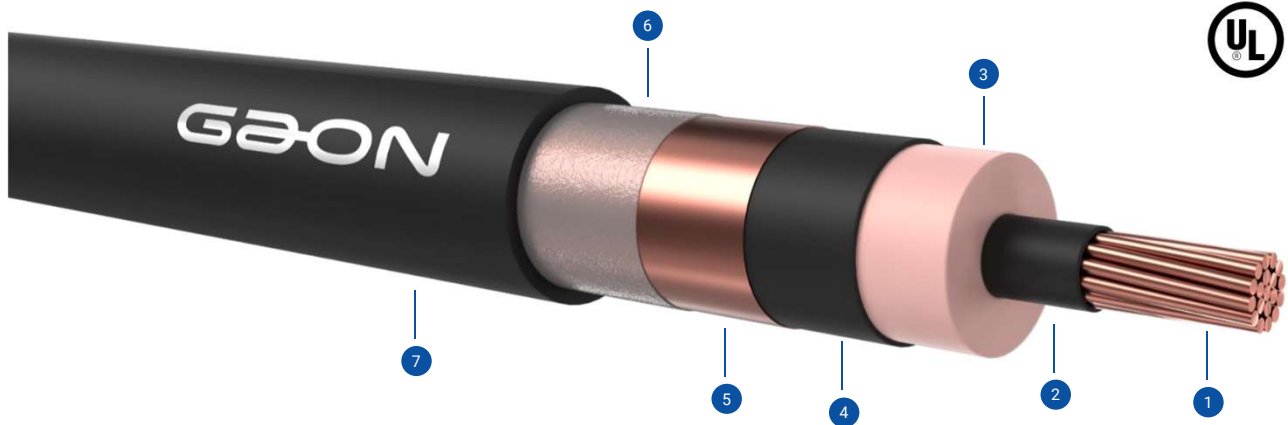
Table 1 Measurements and Weights

Size of Conductor	Conductor Dia.		Insulation Dia.		Jacket Thickness (min.)		Approx. Overall Dia.		Max. Conductor Resistance (20 °C)		Approx. Net Weight	
	AWG or KCMIL	mm	in	mm	in	mm	in	mm	in	Ω/km	Ω/1000ft	kg/km
1/0	9.1	0.359	21.58	0.85	1.78	0.070	28.5	1.13	0.3487	0.1063	1300	873
2/0	10.1	0.398	22.58	0.89	1.78	0.070	29.5	1.17	0.2766	0.08432	1473	990
3/0	11.4	0.449	23.88	0.95	1.78	0.070	30.8	1.22	0.2194	0.06688	1687	1134
4/0	12.8	0.504	25.28	1.00	1.78	0.070	32.2	1.27	0.1722	0.05248	1946	1307
250	14.0	0.552	26.68	1.06	1.78	0.070	33.6	1.33	0.1473	0.04488	2189	1471
350	16.5	0.650	29.18	1.15	1.78	0.070	36.1	1.43	0.1052	0.03206	2755	1851
500	19.7	0.776	32.38	1.28	1.78	0.070	39.3	1.55	0.07287	0.02222	3579	2405
750	24.2	0.953	37.08	1.46	2.54	0.100	45.6	1.80	0.04858	0.01481	5120	3440
1000	27.9	1.099	40.78	1.61	2.54	0.100	49.3	1.95	0.03643	0.01111	6443	4330

SPEC # 5613

25kV 1/C Cu EPR (100%) CTS PVC MV-105

Power Cable 25kV Single Conductor Copper, Ethylene Propylene Rubber (EPR) 100% insulation Helically wrapped Copper Tape Shield, Polyvinyl Chloride (PVC) Jacket.



CONSTRUCTIONS

- | | | | |
|---|--------------------|---|---|
| 1 | Conductor | : | Class B compressed stranded bare copper per ASTM B3 and ASTM B8 |
| 2 | Conductor Shield | : | Extruded semi-conducting cross-linked copolymer |
| 3 | Insulation | : | Ethylene propylene rubber (EPR) 100% |
| 4 | Insulation Shield | : | Extruded semi-conducting cross-linked copolymer |
| 5 | Copper Tape Shield | : | Helically overlapped copper tape about 25% overlap |
| 6 | Binder | : | Polypropylene tape |
| 7 | Jacket | : | Extruded polyvinyl chloride (PVC) |

APPLICATIONS AND FEATURES

GAON CABLE's 25kV cables are designed for versatile applications in both wet or dry environments, including conduits, ducts, troughs, trays, direct burial, and situations where exceptional electrical properties are essential. These cables can operate continuously with a conductor temperature not exceeding 105°C for normal operation, 140°C for emergency overload, and 250°C for short circuit conditions.

ENGINEERING SPECIFICATIONS

- ASTM B3 Soft or annealed copper
- ASTM B8 Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft
- NEMA WC70/ICEA S-93-639 5-46 kV Shielded Power Cable
- UL 1072 Medium Voltage Power Cables ; UL Listed E252502
- UL 1685 Flame Exposure Test

SPEC # 5613

25kV 1/C Cu EPR (100%) CTS PVC MV-105

Table 1 Measurements and Weights

Size of Conductor	Conductor Dia.		Insulation Dia.		Jacket Thickness (min.)		Approx. Overall Dia.		Max. Conductor Resistance (20℃)		Approx. Net Weight	
	mm	in	mm	in	mm	in	mm	in	Ω/km	Ω/1000ft	kg/km	lbs/1000ft
1/0	9.1	0.359	23.60	0.93	1.78	0.070	30.6	1.21	0.3487	0.1063	1421	955
2/0	10.1	0.398	24.60	0.97	1.78	0.070	31.6	1.25	0.2766	0.08432	1597	1073
3/0	11.4	0.449	25.90	1.02	1.78	0.070	32.9	1.30	0.2194	0.06688	1816	1221
4/0	12.8	0.504	27.30	1.08	1.78	0.070	34.3	1.36	0.1722	0.05248	2080	1398
250	14.0	0.552	28.70	1.13	1.78	0.070	35.7	1.41	0.1473	0.04488	2329	1565
350	16.5	0.650	31.20	1.23	1.78	0.070	38.2	1.51	0.1052	0.03206	2904	1951
500	19.7	0.776	34.40	1.36	1.78	0.070	41.4	1.63	0.07287	0.02222	3739	2513
750	24.2	0.953	39.10	1.54	2.54	0.100	47.7	1.88	0.04858	0.01481	5305	3565
1000	27.9	1.099	42.80	1.69	2.54	0.100	51.4	2.03	0.03643	0.01111	6642	4464

SPEC # 5613

35kV 1/C Cu EPR (100%) CTS PVC MV-105

Power Cable 35kV Single Conductor Copper, Ethylene Propylene Rubber (EPR) 100% insulation Helically wrapped Copper Tape Shield, Polyvinyl Chloride (PVC) Jacket.



CONSTRUCTIONS

- | | | | |
|---|--------------------|---|---|
| 1 | Conductor | : | Class B compressed stranded bare copper per ASTM B3 and ASTM B8 |
| 2 | Conductor Shield | : | Extruded semi-conducting cross-linked copolymer |
| 3 | Insulation | : | Ethylene propylene rubber (EPR) 100% |
| 4 | Insulation Shield | : | Extruded semi-conducting cross-linked copolymer |
| 5 | Copper Tape Shield | : | Helically overlapped copper tape about 25% overlap |
| 6 | Binder | : | Polypropylene tape |
| 7 | Jacket | : | Extruded polyvinyl chloride (PVC) |

APPLICATIONS AND FEATURES

GAON CABLE's 35kV cables are designed for versatile applications in both wet or dry environments, including conduits, ducts, troughs, trays, direct burial, and situations where exceptional electrical properties are essential. These cables can operate continuously with a conductor temperature not exceeding 105°C for normal operation, 140°C for emergency overload, and 250°C for short circuit conditions.

ENGINEERING SPECIFICATIONS

- ASTM B3 Soft or annealed copper
- ASTM B8 Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft
- NEMA WC70/ICEA S-93-639 5-46 kV Shielded Power Cable
- UL 1072 Medium Voltage Power Cables ; UL Listed E252502
- UL 1685 Flame Exposure Test

SPEC # 5613

35kV 1/C Cu EPR (100%) CTS PVC MV-105

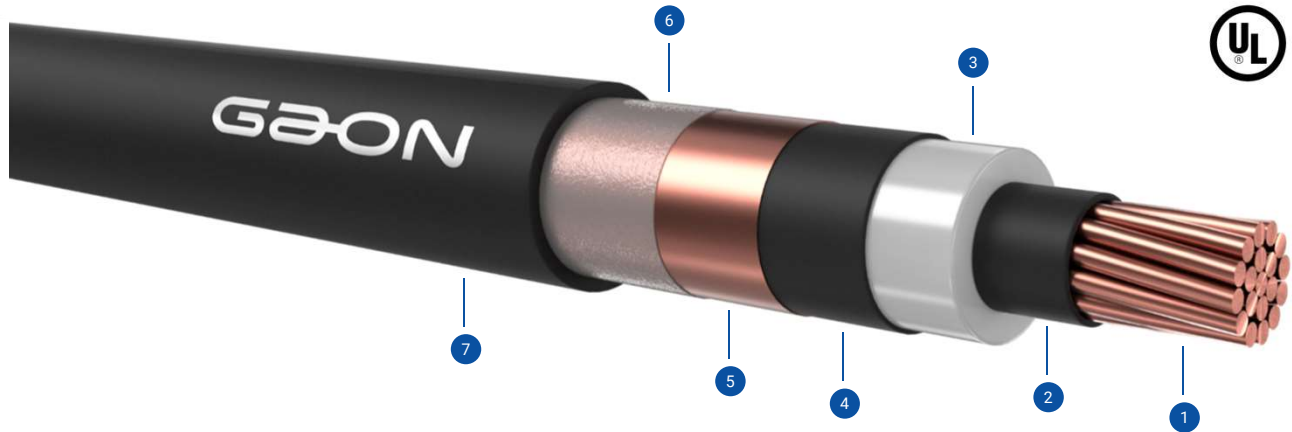
Table 1 Measurements and Weights

Size of Conductor	Conductor Dia.		Insulation Dia.		Jacket Thickness (min.)		Approx. Overall Dia.		Max. Conductor Resistance (20℃)		Approx. Net Weight	
AWG or KCMIL	mm	in	mm	in	mm	in	mm	in	Ω/km	Ω/1000ft	kg/km	lbs/1000ft
1/0	9.1	0.359	27.92	1.10	1.78	0.070	34.9	1.38	0.3487	0.1063	1702	1144
2/0	10.1	0.398	28.92	1.14	1.78	0.070	35.9	1.42	0.2766	0.08432	1886	1268
3/0	11.4	0.449	30.22	1.19	1.78	0.070	37.2	1.47	0.2194	0.06688	2116	1422
4/0	12.8	0.504	31.62	1.25	1.78	0.070	38.6	1.52	0.1722	0.05248	2390	1606
250	14.0	0.552	33.02	1.30	1.78	0.070	40.0	1.58	0.1473	0.04488	2650	1781
350	16.5	0.650	35.52	1.40	2.54	0.100	44.1	1.74	0.1052	0.03206	3408	2290
500	19.7	0.776	38.72	1.53	2.54	0.100	47.3	1.87	0.07287	0.02222	4280	2876
750	24.2	0.953	43.42	1.71	2.54	0.100	52.0	2.05	0.04858	0.01481	5723	3846
1000	27.9	1.099	47.12	1.86	2.54	0.100	55.7	2.20	0.03643	0.01111	7090	4764

SPEC # 5211

5kV 1/C Cu TR-XLPE (133%) CTS PVC MV-105

Power Cable 5kV Single Conductor Copper, Tree retardant cross-linked polyethylene (TR-XLPE) 133% insulation and 8kV Single Conductor Copper, Tree retardant cross-linked polyethylene (TR-XLPE) 100% insulation Helically wrapped Copper Tape Shield, Polyvinyl Chloride (PVC) Jacket.



CONSTRUCTIONS

1	Conductor	: Class B compressed stranded bare copper per ASTM B3 and ASTM B8
2	Conductor Shield	: Extruded semi-conducting cross-linked copolymer
3	Insulation	: Tree retardant cross-linked polyethylene (TR-XLPE) 133%-5kV, 100%-8kV insulation level
4	Insulation Shield	: Extruded semi-conducting cross-linked copolymer
5	Copper Tape Shield	: Helically overlapped copper tape about 25% overlap
6	Binder	: Polypropylene tape
7	Jacket	: Extruded polyvinyl chloride (PVC)

APPLICATIONS AND FEATURES

GAON CABLE's 5/8kV cables are designed for versatile applications in both wet or dry environments, including conduits, ducts, troughs, trays, direct burial, and situations where exceptional electrical properties are essential. These cables can operate continuously with a conductor temperature not exceeding 105°C for normal operation, 140°C for emergency overload, and 250°C for short circuit conditions.

ENGINEERING SPECIFICATIONS

- ASTM B3 Soft or annealed copper
- ASTM B8 Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft
- NEMA WC70/ICEA S-93-639 5-46 kV Shielded Power Cable
- UL 1072 Medium Voltage Power Cables ; UL Listed E252502
- UL 1685 Flame Exposure Test

SPEC # 5211

5kV 1/C Cu TR-XLPE (133%) CTS PVC MV-105

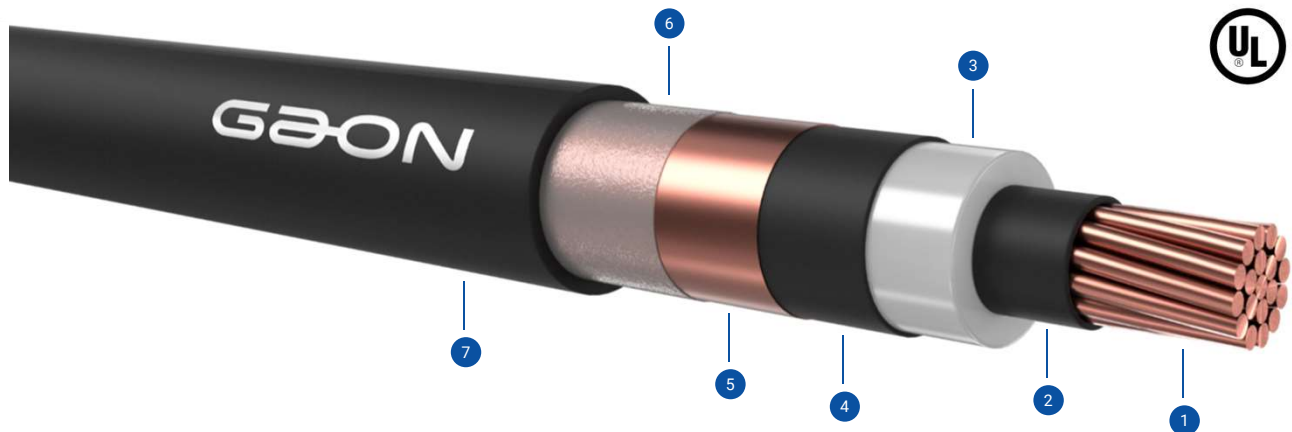
Table 1 Measurements and Weights

Size of Conductor	Conductor Dia.		Insulation Dia.		Jacket Thickness (min.)		Approx. Overall Dia.		Max. Conductor Resistance (20℃)		Approx. Net Weight	
	mm	in	mm	in	mm	in	mm	in	Ω/km	Ω/1000ft	kg/km	lbs/1000ft
1/0	9.1	0.359	16.6	0.66	1.78	0.070	23.6	0.93	0.3487	0.1063	1005	675
2/0	10.1	0.398	17.6	0.70	1.78	0.070	24.6	0.97	0.2766	0.08432	1166	784
3/0	11.4	0.449	18.9	0.75	1.78	0.070	25.9	1.02	0.2194	0.06688	1366	918
4/0	12.8	0.504	20.3	0.80	1.78	0.070	27.3	1.08	0.1722	0.05248	1609	1081
250	14.0	0.552	21.7	0.86	1.78	0.070	28.7	1.13	0.1473	0.04488	1836	1234
350	16.5	0.650	24.2	0.96	1.78	0.070	31.2	1.23	0.1052	0.03206	2374	1596
500	19.7	0.776	27.4	1.08	1.78	0.070	34.4	1.36	0.07287	0.02222	3162	2125
750	24.2	0.953	32.1	1.27	1.78	0.070	39.1	1.54	0.04858	0.01481	4481	3011
1000	27.9	1.099	35.8	1.41	2.54	0.100	44.4	1.75	0.03643	0.01111	5913	3974

SPEC # 5211

15kV 1/C Cu TR-XLPE (100%) CTS PVC MV-105

Power Cable 15kV Single Conductor Copper, Tree retardant cross-linked polyethylene (TR-XLPE) 100% insulation Helically wrapped Copper Tape Shield, Polyvinyl Chloride (PVC) Jacket.



CONSTRUCTIONS

1	Conductor	:	Class B compressed stranded bare copper per ASTM B3 and ASTM B8
2	Conductor Shield	:	Extruded semi-conducting cross-linked copolymer
3	Insulation	:	Tree retardant cross-linked polyethylene (TR-XLPE) 100%
4	Insulation Shield	:	Extruded semi-conducting cross-linked copolymer
5	Copper Tape Shield	:	Helically overlapped copper tape about 25% overlap
6	Binder	:	Polypropylene tape
7	Jacket	:	Extruded polyvinyl chloride (PVC)

APPLICATIONS AND FEATURES

GAON CABLE's 15kV cables are designed for versatile applications in both wet or dry environments, including conduits, ducts, troughs, trays, direct burial, and situations where exceptional electrical properties are essential. These cables can operate continuously with a conductor temperature not exceeding 105°C for normal operation, 140°C for emergency overload, and 250°C for short circuit conditions.

ENGINEERING SPECIFICATIONS

- ASTM B3 Soft or annealed copper
- ASTM B8 Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft
- NEMA WC70/ICEA S-93-639 5-46 kV Shielded Power Cable
- UL 1072 Medium Voltage Power Cables ; UL Listed E252502
- UL 1685 Flame Exposure Test

SPEC # 5211

15kV 1/C Cu TR-XLPE (100%) CTS PVC MV-105

Table 1 Measurements and Weights

Size of Conductor	Conductor Dia.		Insulation Dia.		Jacket Thickness (min.)		Approx. Overall Dia.		Max. Conductor Resistance (20℃)		Approx. Net Weight	
	mm	in	mm	in	mm	in	mm	in	Ω/km	Ω/1000ft	kg/km	lbs/1000ft
1/0	9.1	0.359	19.3	0.76	1.78	0.070	26.3	1.04	0.3487	0.1063	1125	756
2/0	10.1	0.398	20.3	0.80	1.78	0.070	27.3	1.08	0.2766	0.08432	1290	867
3/0	11.4	0.449	21.6	0.86	1.78	0.070	28.6	1.13	0.2194	0.06688	1495	1005
4/0	12.8	0.504	23.0	0.91	1.78	0.070	30.0	1.19	0.1722	0.05248	1743	1172
250	14.0	0.552	24.4	0.97	1.78	0.070	31.4	1.24	0.1473	0.04488	1976	1328
350	16.5	0.650	26.9	1.06	1.78	0.070	33.9	1.34	0.1052	0.03206	2524	1696
500	19.7	0.776	30.1	1.19	1.78	0.070	37.1	1.47	0.07287	0.02222	3324	2234
750	24.2	0.953	34.8	1.38	1.78	0.070	41.8	1.65	0.04858	0.01481	4661	3132
1000	27.9	1.099	38.5	1.52	2.54	0.100	47.1	1.86	0.03643	0.01111	6119	4112

SPEC # 5211

15kV 1/C Cu TR-XLPE (133%) CTS PVC MV-105

Power Cable 15kV Single Conductor Copper, Tree retardant cross-linked polyethylene (TR-XLPE) 133% insulation Helically wrapped Copper Tape Shield, Polyvinyl Chloride (PVC) Jacket.



CONSTRUCTIONS

1	Conductor	:	Class B compressed stranded bare copper per ASTM B3 and ASTM B8
2	Conductor Shield	:	Extruded semi-conducting cross-linked copolymer
3	Insulation	:	Tree retardant cross-linked polyethylene (TR-XLPE) 133%
4	Insulation Shield	:	Extruded semi-conducting cross-linked copolymer
5	Copper Tape Shield	:	Helically overlapped copper tape about 25% overlap
6	Binder	:	Polypropylene tape
7	Jacket	:	Extruded polyvinyl chloride (PVC)

APPLICATIONS AND FEATURES

GAON CABLE's 15kV cables are designed for versatile applications in both wet or dry environments, including conduits, ducts, troughs, trays, direct burial, and situations where exceptional electrical properties are essential. These cables can operate continuously with a conductor temperature not exceeding 105°C for normal operation, 140°C for emergency overload, and 250°C for short circuit conditions.

ENGINEERING SPECIFICATIONS

- ASTM B3 Soft or annealed copper
- ASTM B8 Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft
- NEMA WC70/ICEA S-93-639 5-46 kV Shielded Power Cable
- UL 1072 Medium Voltage Power Cables ; UL Listed E252502
- UL 1685 Flame Exposure Test

SPEC # 5211

15kV 1/C Cu TR-XLPE (133%) CTS PVC MV-105

Table 1 Measurements and Weights

Size of Conductor	Conductor Dia.		Insulation Dia.		Jacket Thickness (min.)		Approx. Overall Dia.		Max. Conductor Resistance (20℃)		Approx. Net Weight	
	mm	in	mm	in	mm	in	mm	in	Ω/km	Ω/1000ft	kg/km	lbs/1000ft
1/0	9.1	0.359	19.3	0.76	1.78	0.070	26.3	1.04	0.3487	0.1063	1234	829
2/0	10.1	0.398	20.3	0.80	1.78	0.070	27.3	1.08	0.2766	0.08432	1403	943
3/0	11.4	0.449	21.6	0.86	1.78	0.070	28.6	1.13	0.2194	0.06688	1612	1083
4/0	12.8	0.504	23.0	0.91	1.78	0.070	30.0	1.19	0.1722	0.05248	1864	1253
250	14.0	0.552	24.4	0.97	1.78	0.070	31.4	1.24	0.1473	0.04488	2102	1413
350	16.5	0.650	26.9	1.06	1.78	0.070	33.9	1.34	0.1052	0.03206	2658	1786
500	19.7	0.776	30.1	1.19	1.78	0.070	37.1	1.47	0.07287	0.02222	3469	2331
750	24.2	0.953	34.8	1.38	1.78	0.070	41.8	1.65	0.04858	0.01481	4890	3353
1000	27.9	1.099	38.5	1.52	2.54	0.100	47.1	1.86	0.03643	0.01111	6299	4233

SPEC # 5211

25kV 1/C Cu TR-XLPE (100%) CTS PVC MV-105

Power Cable 25kV Single Conductor Copper, Tree retardant cross-linked polyethylene (TR-XLPE) 100% insulation Helically wrapped Copper Tape Shield, Polyvinyl Chloride (PVC) Jacket.



CONSTRUCTIONS

1	Conductor	: Class B compressed stranded bare copper per ASTM B3 and ASTM B8
2	Conductor Shield	: Extruded semi-conducting cross-linked copolymer
3	Insulation	: Tree retardant cross-linked polyethylene (TR-XLPE) 100%
4	Insulation Shield	: Extruded semi-conducting cross-linked copolymer
5	Copper Tape Shield	: Helically overlapped copper tape about 25% overlap
6	Binder	: Polypropylene tape
7	Jacket	: Extruded polyvinyl chloride (PVC)

APPLICATIONS AND FEATURES

GAON CABLE's 25kV cables are designed for versatile applications in both wet or dry environments, including conduits, ducts, troughs, trays, direct burial, and situations where exceptional electrical properties are essential. These cables can operate continuously with a conductor temperature not exceeding 105°C for normal operation, 140°C for emergency overload, and 250°C for short circuit conditions.

ENGINEERING SPECIFICATIONS

- ASTM B3 Soft or annealed copper
- ASTM B8 Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft
- NEMA WC70/ICEA S-93-639 5-46 kV Shielded Power Cable
- UL 1072 Medium Voltage Power Cables ; UL Listed E252502
- UL 1685 Flame Exposure Test

SPEC # 5211

25kV 1/C Cu TR-XLPE (100%) CTS PVC MV-105

Table 1 Measurements and Weights

Size of Conductor	Conductor Dia.		Insulation Dia.		Jacket Thickness (min.)		Approx. Overall Dia.		Max. Conductor Resistance (20℃)		Approx. Net Weight	
	mm	in	mm	in	mm	in	mm	in	Ω/km	Ω/1000ft	kg/km	lbs/1000ft
1/0	9.1	0.359	23.60	0.93	1.78	0.070	30.6	1.21	0.3487	0.1063	1338	899
2/0	10.1	0.398	24.60	0.97	1.78	0.070	31.6	1.25	0.2766	0.08432	1510	1015
3/0	11.4	0.449	25.90	1.02	1.78	0.070	32.9	1.30	0.2194	0.06688	1723	1158
4/0	12.8	0.504	27.30	1.08	1.78	0.070	34.3	1.36	0.1722	0.05248	1980	1330
250	14.0	0.552	28.70	1.13	1.78	0.070	35.7	1.41	0.1473	0.04488	2221	1493
350	16.5	0.650	31.20	1.23	1.78	0.070	38.2	1.51	0.1052	0.03206	2784	1871
500	19.7	0.776	34.40	1.36	1.78	0.070	41.4	1.63	0.07287	0.02222	3605	2422
750	24.2	0.953	39.10	1.54	2.54	0.100	47.7	1.88	0.04858	0.01481	5148	3459
1000	27.9	1.099	42.80	1.69	2.54	0.100	51.4	2.03	0.03643	0.01111	6467	4346

SPEC # 5211

35kV 1/C Cu TR-XLPE (100%) CTS PVC MV-105

Power Cable 35kV Single Conductor Copper, Tree retardant cross-linked polyethylene (TR-XLPE) 100% insulation Helically wrapped Copper Tape Shield, Polyvinyl Chloride (PVC) Jacket.



CONSTRUCTIONS

1	Conductor	:	Class B compressed stranded bare copper per ASTM B3 and ASTM B8
2	Conductor Shield	:	Extruded semi-conducting cross-linked copolymer
3	Insulation	:	Tree retardant cross-linked polyethylene (TR-XLPE) 100%
4	Insulation Shield	:	Extruded semi-conducting cross-linked copolymer
5	Copper Tape Shield	:	Helically overlapped copper tape about 25% overlap
6	Binder	:	Polypropylene tape
7	Jacket	:	Extruded polyvinyl chloride (PVC)

APPLICATIONS AND FEATURES

GAON CABLE's 35kV cables are designed for versatile applications in both wet or dry environments, including conduits, ducts, troughs, trays, direct burial, and situations where exceptional electrical properties are essential. These cables can operate continuously with a conductor temperature not exceeding 105°C for normal operation, 140°C for emergency overload, and 250°C for short circuit conditions.

ENGINEERING SPECIFICATIONS

- ASTM B3 Soft or annealed copper
- ASTM B8 Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft
- NEMA WC70/ICEA S-93-639 5-46 kV Shielded Power Cable
- UL 1072 Medium Voltage Power Cables ; UL Listed E252502
- UL 1685 Flame Exposure Test

SPEC # 5211

35kV 1/C Cu TR-XLPE (100%) CTS PVC MV-105

Table 1 Measurements and Weights

Size of Conductor	Conductor Dia.		Insulation Dia.		Jacket Thickness (min.)		Approx. Overall Dia.		Max. Conductor Resistance (20℃)		Approx. Net Weight	
	mm	in	mm	in	mm	in	mm	in	Ω/km	Ω/1000ft	kg/km	lbs/1000ft
1/0	9.1	0.359	27.92	1.10	1.78	0.070	34.9	1.38	0.3487	0.1063	1579	1061
2/0	10.1	0.398	28.92	1.14	1.78	0.070	35.9	1.42	0.2766	0.08432	1757	1181
3/0	11.4	0.449	30.22	1.19	1.78	0.070	37.2	1.47	0.2194	0.06688	1978	1329
4/0	12.8	0.504	31.62	1.25	1.78	0.070	38.6	1.52	0.1722	0.05248	2243	1508
250	14.0	0.552	33.02	1.30	1.78	0.070	40.0	1.58	0.1473	0.04488	2494	1676
350	16.5	0.650	35.52	1.40	2.54	0.100	44.1	1.74	0.1052	0.03206	3236	2175
500	19.7	0.776	38.72	1.53	2.54	0.100	47.3	1.87	0.07287	0.02222	4088	2747
750	24.2	0.953	43.42	1.71	2.54	0.100	52.0	2.05	0.04858	0.01481	5501	3697
1000	27.9	1.099	47.12	1.86	2.54	0.100	55.7	2.20	0.03643	0.01111	6844	4599