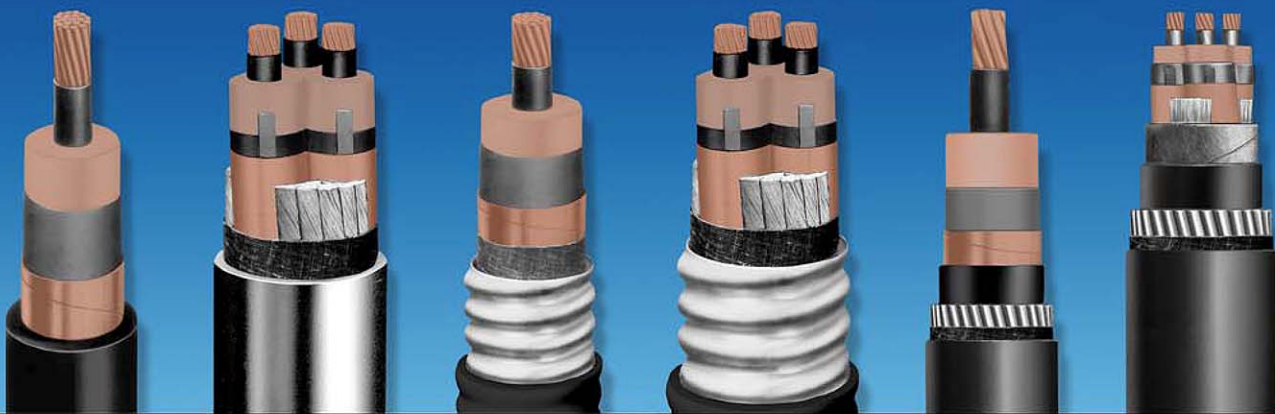




**THE
OKONITE
COMPANY**

IEC 60502-2 CERTIFIED MEDIUM VOLTAGE CABLES



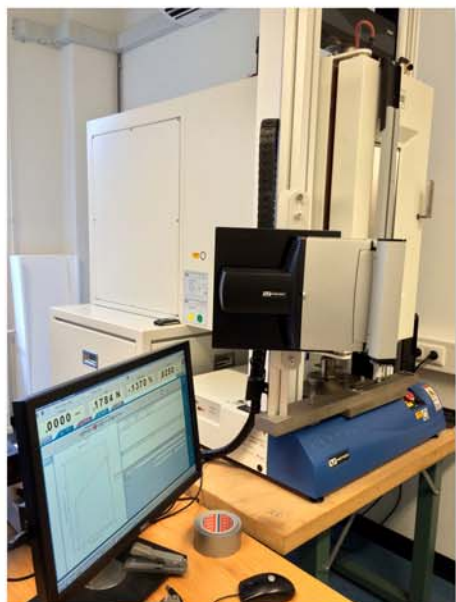
6 - 30 kV Shielded Power Cables

Setting the Standard

OKONITE QUALITY

Okonite's Okoguard all EPR insulation system has performed in the most demanding environments for over 45 years. Serving the Electric Utility, Industrial, Petrochemical and Railroad Transit markets for over 135 years. Okonite is considered to be the premium quality cable available.

Okonite continues to lead the industry in innovation, research, and plant modernizations.



INDEPENDENT LAB CERTIFICATION

Okonite chose KEMA to certify our Petrochemical Utility and Industrial customers' demanding need for the highest level of cable performance, safety, and reliability.

KEMA utilizes state-of-the-art equipment to ensure electrical and non-electrical type tests are carried out to the highest standard.

Users of cables made to IEC standards require certification by an independent testing organization.

CERTIFICATION

Following the successful testing and complete conformance of Okonite Cables to IEC 60502-2, KEMA Type Test Certificates were issued. These documents are globally recognized as evidence of the highest level of quality of construction and materials.

Okonite IEC medium voltage cables also meet the following optional tests:

- Vertical tray flame testing per IEC 60332-3
- Flame spread per IEC 60332-1-2
- Oil immersion per IEC 60811-404



Okonite offers the following six constructions tested by KEMA to IEC 60502-2:

Section 2: Sheet 43 1/C Okoguard Shielded Power Cable - Non-armored

Section 2: Sheet 44 3/C Okoguard Shielded Power Cable - Non-armored

Section 2: Sheet 45 1/C Okoguard Shielded Power Cable - CLX Armor

Section 2: Sheet 46 3/C Okoguard Shielded Power Cable - CLX Armor

Section 2: Sheet 47 1/C Okoguard Shielded Power Cable - Aluminum Wire Armor

Section 2: Sheet 48 3/C Okoguard Shielded Power Cable - Galvanized Steel Wire Armor



Copies of the Type Test Certificates and Reports of Performance are available upon request.
Please contact your local Okonite District Office as shown on the back of this brochure.



Okoguard®-Okoseal® Type IEC 60502-2

6, 10, 15, 20, 30 kV Shielded Power Cable

One Okopact® (Compact Stranded) Copper Conductor/90°C Rating



- A Conductor - Compact Stranded Copper
- B Strand Screen - Extruded Semi-conducting EPR
- C Insulation - Okoguard EPR
- D Insulation Screen - Extruded Semi-conducting EPR
- E Shield - Copper Tape
- F Jacket - Okoseal PVC

Insulation

Okoguard is Okonite's registered trade name for its exclusive ethylene-propylene rubber (EPR) based, thermosetting compound, whose optimum balance of electrical and physical properties is unequaled in other solid dielectrics. Okoguard insulation, with the distinctive red color and a totally integrated EPR system, provides the optimum balance of electrical and physical properties for long, problem free service.

The triple tandem extrusion of the screens with the insulation provides optimum electrical characteristics.

Jacket

The Okoseal (PVC) flame retardant jacket supplied with this cable is mechanically rugged and has excellent resistance to oil and most chemicals.

Applications

Okoguard-Okoseal Type IEC 60502-2 cables are intended for use in fixed installations such as distribution networks or industrial applications.

Specifications

Conductor: Annealed uncoated copper compact stranded per IEC 60228.

Strand Screen: Extruded semiconducting EPR strand screen. Meets or exceeds the electrical and physical properties of IEC 60502-2.

Insulation: Meets or exceeds the electrical and physical properties of IEC 60502-2.

Insulation Screen: Extruded semiconducting EPR insulation screen applied directly over the insulation. Meets or exceeds the electrical and physical properties of IEC 60502-2.

Shield: 0.005 inches (0.127mm) bare copper tape helically applied with 25% minimum overlap.

Jacket: Meets or exceeds the electrical and physical properties of IEC 60502-2 for polyvinyl chloride jackets.

Product Features

- Certification to IEC 60502-2 conducted by KEMA Nederland B.V.
- Conformance provided by means of Type Test Certificate TIC 1011-14.
- Passes optional flame spread requirements pre IEC 60332-1-2.
- PVC jacket passes oil immersion requirements per IEC 60811-404.
- Passes IEC 60332-3-24 Category C vertical tray flame test.
- Triple tandem extruded, all EPR system.
- Okoguard cables meet or exceed all recognized industry standards.
- Excellent corona resistance.
- Screens are free stripping.
- Exceptional resistance to "treeing".
- Exceptional resistance to moisture.
- Resistant to most oils, acids, and alkalis.
- Sunlight resistant.
- Aluminum and coated copper conductors available.

Okoguard®-Okoseal® Type IEC 60502-2

6, 10, 15, 20, 30 kV Shielded Power Cable

One Okopact® (Compact Stranded) Copper Conductor/90°C Rating

Product Data Section 2: Sheet 43

US MEASUREMENTS

Catalog Number	Conductor Size - mm ²	Nominal Insulation Thickness - inches	Approx. Dia. over Insulation - inches	Approx. Dia. over Screen - inches	Jacket Thickness - inches	Approx. O.D. - inches	Approx. Net Weight - lbs./1000'	Approx. Ship Weight - lbs./1000'
6 kV Rated Cable								
114-23-0002	25	0.098	0.473	0.533	0.059	0.677	373	395
114-23-0003	35	0.098	0.515	0.575	0.059	0.719	453	484
114-23-0005	50	0.098	0.557	0.617	0.063	0.769	548	581
114-23-0007	70	0.098	0.621	0.681	0.063	0.833	703	749
114-23-0009	95	0.098	0.688	0.748	0.067	0.908	898	951
114-23-0012	120	0.098	0.762	0.822	0.067	0.982	1084	1143
114-23-0015	150	0.098	0.826	0.886	0.071	1.054	1333	1411
114-23-0018	185	0.098	0.878	0.938	0.071	1.106	1533	1611
114-23-0024	240	0.102	0.978	1.038	0.075	1.214	1939	2055
114-23-0030	300	0.110	1.089	1.149	0.079	1.335	2453	2639
114-23-0040	400	0.118	1.223	1.283	0.087	1.485	3002	3239
114-23-0050	500	0.126	1.366	1.426	0.091	1.636	3859	4096

10 kV Rated Cable								
115-23-0102	25	0.134	0.545	0.605	0.063	0.757	430	465
115-23-0103	35	0.134	0.587	0.647	0.063	0.799	514	548
115-23-0105	50	0.134	0.629	0.689	0.063	0.841	606	652
115-23-0107	70	0.134	0.693	0.753	0.067	0.913	772	825
115-23-0109	95	0.134	0.760	0.820	0.067	0.980	965	1040
115-23-0112	120	0.134	0.834	0.894	0.071	1.062	1164	1259
115-23-0115	150	0.134	0.898	0.958	0.075	1.134	1418	1507
115-23-0118	185	0.134	0.950	1.010	0.075	1.186	1622	1711
115-23-0124	240	0.134	1.042	1.102	0.079	1.288	2028	2144
115-23-0130	300	0.134	1.137	1.197	0.083	1.391	2526	2712
115-23-0140	400	0.134	1.255	1.315	0.087	1.517	3048	3285
115-23-0150	500	0.134	1.382	1.442	0.091	1.652	3884	4121

15 kV Rated Cable								
115-23-0202	25	0.177	0.635	0.695	0.063	0.847	502	536
115-23-0203	35	0.177	0.677	0.737	0.067	0.897	596	635
115-23-0205	50	0.177	0.719	0.779	0.067	0.939	692	767
115-23-0207	70	0.177	0.783	0.843	0.071	1.011	864	939
115-23-0209	95	0.177	0.850	0.910	0.071	1.078	1064	1140
115-23-0212	120	0.177	0.924	0.984	0.075	1.160	1270	1372
115-23-0215	150	0.177	0.988	1.048	0.075	1.224	1521	1637
115-23-0218	185	0.177	1.040	1.100	0.079	1.286	1741	1857
115-23-0224	240	0.177	1.132	1.192	0.083	1.386	2154	2287
115-23-0230	300	0.177	1.227	1.287	0.087	1.489	2661	2870
115-23-0240	400	0.177	1.345	1.405	0.091	1.615	3194	3431
115-23-0250	500	0.177	1.472	1.532	0.094	1.748	4039	4350

Okoguard®-Okoseal® Type IEC 60502-2

6, 10, 15, 20, 30 kV Shielded Power Cable

One Okopact® (Compact Stranded) Copper Conductor/90°C Rating

Product Data Section 2: Sheet 43

US MEASUREMENTS

Catalog Number	Conductor Size - mm ²	Nominal Insulation Thickness - inches	Approx. Dia. over Insulation - inches	Approx. Dia. over Screen - inches	Jacket Thickness - inches	Approx. O.D. - inches	Approx. Net Weight - lbs./1000'	Approx. Ship Weight - lbs./1000'
20 kV Rated Cable								
115-23-0303	35	0.217	0.759	0.819	0.067	0.979	672	747
115-23-0305	50	0.217	0.801	0.861	0.071	1.029	779	854
115-23-0307	70	0.217	0.865	0.925	0.071	1.093	948	1024
115-23-0309	95	0.217	0.932	0.992	0.075	1.168	1162	1264
115-23-0312	120	0.217	1.006	1.066	0.079	1.252	1377	1500
115-23-0315	150	0.217	1.070	1.130	0.079	1.316	1633	1766
115-23-0318	185	0.217	1.122	1.182	0.083	1.376	1857	2043
115-23-0324	240	0.217	1.214	1.274	0.083	1.468	2266	2452
115-23-0330	300	0.217	1.309	1.369	0.087	1.571	2781	2990
115-23-0340	400	0.217	1.427	1.487	0.091	1.697	3323	3577
115-23-0350	500	0.217	1.554	1.614	0.094	1.830	4178	4489
30 kV Rated Cable								
115-23-0405	50	0.315	1.001	1.061	0.079	1.247	1020	1122
115-23-0407	70	0.315	1.065	1.125	0.079	1.311	1202	1325
115-23-0409	95	0.315	1.132	1.192	0.083	1.386	1430	1554
115-23-0412	120	0.315	1.206	1.266	0.083	1.460	1648	1772
115-23-0415	150	0.315	1.270	1.330	0.087	1.532	1928	2114
115-23-0418	185	0.315	1.322	1.382	0.087	1.584	2151	2341
115-23-0424	240	0.315	1.414	1.474	0.091	1.684	2590	2787
115-23-0430	300	0.315	1.509	1.569	0.094	1.785	3122	3376
115-23-0440	400	0.315	1.627	1.687	0.098	1.913	3693	4000
115-23-0450	500	0.315	1.754	1.814	0.102	2.048	4577	4888

Visit Okonite's web site, www.okonite.com for the most up to date dimensions.

Ampacities

Refer to IEC 60502-2 Annex B for continuous current ratings of 1/C and 3/C cables.

Alternate Constructions

Contact Applications Engineering for design options.

Okoguard®-Okoseal® Type IEC 60502-2

6, 10, 15, 20, 30 kV Shielded Power Cable

One Okopact® (Compact Stranded) Copper Conductor/90°C Rating

Product Data Section 2: Sheet 43

METRIC MEASUREMENTS

Catalog Number	Conductor Size - mm ²	Nominal Insulation Thickness - mm	Approx. Dia. over Insulation - mm	Approx. Dia. over Screen - mm	Jacket Thickness - mm	Approx. O.D. - mm	Approx. Net Weight - Kg/Km	Approx. Ship Weight - Kg/Km
6 kV Rated Cable								
114-23-0002	25	2.5	12.0	13.5	1.5	17.2	555	588
114-23-0003	35	2.5	13.1	14.6	1.5	18.3	674	720
114-23-0005	50	2.5	14.1	15.7	1.6	19.5	815	865
114-23-0007	70	2.5	15.8	17.3	1.6	21.2	1046	1115
114-23-0009	95	2.5	17.5	19.0	1.7	23.1	1336	1415
114-23-0012	120	2.5	19.4	20.9	1.7	24.9	1613	1701
114-23-0015	150	2.5	21.0	22.5	1.8	26.8	1984	2100
114-23-0018	185	2.5	22.3	23.8	1.8	28.1	2281	2397
114-23-0024	240	2.6	24.8	26.4	1.9	30.8	2885	3058
114-23-0030	300	2.8	27.7	29.2	2.0	33.9	3650	3927
114-23-0040	400	3.0	31.1	32.6	2.2	37.7	4467	4820
114-23-0050	500	3.2	34.7	36.2	2.3	41.6	5742	6095

10 kV Rated Cable								
115-23-0102	25	3.4	13.8	15.4	1.6	19.2	640	692
115-23-0103	35	3.4	14.9	16.4	1.6	20.3	765	815
115-23-0105	50	3.4	16.0	17.5	1.6	21.4	902	970
115-23-0107	70	3.4	17.6	19.1	1.7	23.2	1149	1228
115-23-0109	95	3.4	19.3	20.8	1.7	24.9	1436	1548
115-23-0112	120	3.4	21.2	22.7	1.8	27.0	1732	1873
115-23-0115	150	3.4	22.8	24.3	1.9	28.8	2110	2242
115-23-0118	185	3.4	24.1	25.7	1.9	30.1	2414	2546
115-23-0124	240	3.4	26.5	28.0	2.0	32.7	3018	3190
115-23-0130	300	3.4	28.9	30.4	2.1	35.3	3759	4035
115-23-0140	400	3.4	31.9	33.4	2.2	38.5	4535	4888
115-23-0150	500	3.4	35.1	36.6	2.3	42.0	5779	6132

15 kV Rated Cable								
115-23-0202	25	4.5	16.1	17.7	1.6	21.5	747	798
115-23-0203	35	4.5	17.2	18.7	1.7	22.8	887	945
115-23-0205	50	4.5	18.3	19.8	1.7	23.9	1030	1141
115-23-0207	70	4.5	19.9	21.4	1.8	25.7	1286	1397
115-23-0209	95	4.5	21.6	23.1	1.8	27.4	1583	1696
115-23-0212	120	4.5	23.5	25.0	1.9	29.5	1890	2042
115-23-0215	150	4.5	25.1	26.6	1.9	31.1	2263	2436
115-23-0218	185	4.5	26.4	27.9	2.0	32.7	2591	2763
115-23-0224	240	4.5	28.8	30.3	2.1	35.2	3205	3403
115-23-0230	300	4.5	31.2	32.7	2.2	37.8	3960	4271
115-23-0240	400	4.5	34.2	35.7	2.3	41.0	4753	5105
115-23-0250	500	4.5	37.4	38.9	2.4	44.4	6010	6473

Okoguard®-Okoseal® Type IEC 60502-2

6, 10, 15, 20, 30 kV Shielded Power Cable

One Okopact® (Compact Stranded) Copper Conductor/90°C Rating

Product Data Section 2: Sheet 43

METRIC MEASUREMENTS

Catalog Number	Conductor Size - mm ²	Nominal Insulation Thickness - mm	Approx. Dia. over Insulation - mm	Approx. Dia. over Screen - mm	Jacket Thickness - mm	Approx. O.D. - mm	Approx. Net Weight - Kg/Km	Approx. Ship Weight - Kg/Km
20 kV Rated Cable								
115-23-0303	35	5.5	19.3	20.8	1.7	24.9	1000	1112
115-23-0305	50	5.5	20.3	21.9	1.8	26.1	1159	1271
115-23-0307	70	5.5	22.0	23.5	1.8	27.8	1411	1524
115-23-0309	95	5.5	23.7	25.2	1.9	29.7	1729	1881
115-23-0312	120	5.5	25.6	27.1	2.0	31.8	2049	2232
115-23-0315	150	5.5	27.2	28.7	2.0	33.4	2430	2628
115-23-0318	185	5.5	28.5	30.0	2.1	35.0	2763	3040
115-23-0324	240	5.5	30.8	32.4	2.1	37.3	3372	3649
115-23-0330	300	5.5	33.2	34.8	2.2	39.9	4138	4449
115-23-0340	400	5.5	36.2	37.8	2.3	43.1	4945	5323
115-23-0350	500	5.5	39.5	41.0	2.4	46.5	6217	6680
30 kV Rated Cable								
115-23-0405	50	8.0	25.4	26.9	2.0	31.7	1518	1670
115-23-0407	70	8.0	27.1	28.6	2.0	33.3	1789	1972
115-23-0409	95	8.0	28.8	30.3	2.1	35.2	2128	2312
115-23-0412	120	8.0	30.6	32.2	2.1	37.1	2452	2637
115-23-0415	150	8.0	32.3	33.8	2.2	38.9	2869	3146
115-23-0418	185	8.0	33.6	35.1	2.2	40.2	3201	3483
115-23-0424	240	8.0	35.9	37.4	2.3	42.8	3854	4147
115-23-0430	300	8.0	38.3	39.9	2.4	45.3	4646	5023
115-23-0440	400	8.0	41.3	42.8	2.5	48.6	5495	5952
115-23-0450	500	8.0	44.6	46.1	2.6	52.0	6811	7273

Visit Okonite's web site, www.okonite.com for the most up to date dimensions.

Ampacities

Refer to IEC 60502-2 Annex B for continuous current ratings of 1/C and 3/C cables.

Alternate Constructions

Contact Applications Engineering for design options.



Okoguard®-Okoseal® Type IEC 60502-2

6, 10, 15, 20, 30 kV Shielded Power Cable

Three Okopact® (Compact Stranded) Copper Conductors/90°C Rating



- A Conductor - Compact Stranded Copper
- B Strand Screen - Extruded Semiconducting EPR
- C Insulation - Okoguard EPR
- D Insulation Screen - Extruded Semiconducting EPR
- E Phase Identification Tape
- F Shield - Copper Tape
- G Fillers and Binder Tape
- H Jacket - Okoseal PVC

Insulation

Okoguard is Okonite's registered trade name for its exclusive ethylene-propylene rubber (EPR) based, thermosetting compound, whose optimum balance of electrical and physical properties is unequalled in other solid dielectrics.

Okoguard insulation, with the distinctive red color and a totally integrated EPR system, provides the optimum balance of electrical and physical properties for long, problem free service.

The triple tandem extrusion of the screens with the insulation provides optimum electrical characteristics.

Assembly

The shielded insulated conductors are assembled with fillers and a binder tape overall.

Jacket

The Okoseal (PVC) flame retardant jacket supplied with this cable is mechanically rugged and has excellent resistance to oil and most chemicals.

Applications

Okoguard-Okoseal Type IEC 60502-2 cables are intended for use in fixed installations such as distribution networks or industrial applications.

Specifications

Conductor: Annealed uncoated copper compact stranded per IEC 60228.

Strand Screen: Extruded semiconducting EPR strand screen. Meets or exceeds the electrical and physical properties of IEC 60502-2.

Insulation: Meets or exceeds the electrical and physical properties of IEC 60502-2.

Insulation Screen: Extruded semiconducting EPR insulation screen applied directly over the insulation. Meets or exceeds the electrical and physical properties of IEC 60502-2.

Shield: 0.005 inches (0.127mm) bare copper tape helically applied with 10% minimum overlap.

Phase Identification: Color coded (black, red, blue) polyester ribbon laid longitudinally under the copper tape shield.

Assembly: Cabled with fillers and an overall binder tape.

Jacket: Meets or exceeds the electrical and physical properties of IEC 60502-2 for polyvinyl chloride jackets.

Product Features

- Certification to IEC 60502-2 conducted by KEMA Nederland B.V.
- Conformance provided by means of Type Test Certificate TIC 1011-14.
- Passes optional flame spread requirements per IEC 60332-1-2.
- PVC jacket passes oil immersion requirements per IEC 60811-404.
- Passes IEC 60332-3-22 Category A vertical tray flame test.
- Triple tandem extruded, all EPR system.
- Okoguard cables meet or exceed all recognized industry standards.
- Excellent corona resistance.
- Screens are free stripping.
- Exceptional resistance to "treeing".
- Exceptional resistance to moisture.
- Resistant to most oils, acids, and alkalies.
- Sunlight resistant.
- Aluminum and coated copper conductors available.
- Complete prepackaged, color coded, factory tested wiring system.

Okoguard®-Okoseal® Type IEC 60502-2

6, 10, 15, 20, 30 kV Shielded Power Cable

Three Okopact® (Compact Stranded) Copper Conductors/90°C Rating

Product Data Section 2: Sheet 44

US MEASUREMENTS

Catalog Number	Conductor Size - mm ²	Nominal Insulation Thickness - inches	Approx. Dia. over Insulation - inches	Approx. Dia. over Screen - inches	Approx. Core O.D. - inches	Jacket Thickness - inches	Approx. O.D. - inches	Approx. Net Weight - lbs./1000'	Approx. Ship Weight - lbs./1000'
6 kV Rated Cable									
114-23-0102	25	0.098	0.473	0.533	1.191	0.083	1.371	1193	1286
114-23-0103	35	0.098	0.515	0.575	1.282	0.083	1.462	1466	1572
114-23-0105	50	0.098	0.557	0.617	1.373	0.087	1.561	1748	1891
114-23-0107	70	0.098	0.621	0.681	1.511	0.091	1.707	2244	2408
114-23-0109	95	0.098	0.688	0.748	1.653	0.098	1.865	2835	3022
114-23-0112	120	0.098	0.762	0.822	1.813	0.102	2.033	3465	3721
114-23-0115	150	0.098	0.826	0.886	1.952	0.106	2.180	4240	4532
114-23-0118	185	0.098	0.878	0.938	2.064	0.110	2.300	4896	5455
114-23-0124	240	0.102	0.978	1.038	2.280	0.118	2.532	6224	6783
114-23-0130	300	0.110	1.089	1.149	2.520	0.126	2.788	7876	8468
114-23-0140	400	0.118	1.223	1.283	2.809	0.138	3.101	9587	10349
114-23-0150	500	0.126	1.366	1.426	3.118	0.150	3.436	12352	13285

10 kV Rated Cable									
115-23-0502	25	0.134	0.545	0.605	1.347	0.087	1.535	1391	1534
115-23-0503	35	0.134	0.587	0.647	1.437	0.091	1.633	1672	1896
115-23-0505	50	0.134	0.629	0.689	1.528	0.094	1.730	1962	2190
115-23-0507	70	0.134	0.693	0.753	1.664	0.098	1.876	2500	2728
115-23-0509	95	0.134	0.760	0.820	1.809	0.102	2.029	3105	3410
115-23-0512	120	0.134	0.834	0.894	1.969	0.110	2.205	3778	4146
115-23-0515	150	0.134	0.898	0.958	2.107	0.114	2.351	4580	4953
115-23-0518	185	0.134	0.950	1.010	2.219	0.118	2.471	5263	5636
115-23-0524	240	0.134	1.042	1.102	2.418	0.122	2.678	6527	7060
115-23-0530	300	0.134	1.137	1.197	2.623	0.130	2.899	8130	8892
115-23-0540	400	0.134	1.255	1.315	2.878	0.142	3.178	9815	10735
115-23-0550	500	0.134	1.382	1.442	3.152	0.150	3.470	12430	13363

15 kV Rated Cable									
115-23-0602	25	0.177	0.635	0.695	1.541	0.094	1.743	1648	1802
115-23-0603	35	0.177	0.677	0.737	1.630	0.094	1.832	1903	2131
115-23-0605	50	0.177	0.719	0.779	1.720	0.098	1.932	2263	2568
115-23-0607	70	0.177	0.783	0.843	1.859	0.106	2.087	2821	3126
115-23-0609	95	0.177	0.850	0.910	2.003	0.110	2.239	3474	3842
115-23-0612	120	0.177	0.924	0.984	2.163	0.114	2.407	4133	4542
115-23-0615	150	0.177	0.988	1.048	2.301	0.118	2.553	5004	5728
115-23-0618	185	0.177	1.030	1.090	2.392	0.122	2.652	5623	6193
115-23-0624	240	0.177	1.132	1.192	2.612	0.130	2.888	7004	7766
115-23-0630	300	0.177	1.227	1.287	2.818	0.138	3.110	8556	9318
115-23-0640	400	0.177	1.333	1.393	3.047	0.146	3.357	10258	11043
115-23-0650	500	0.177	1.472	1.532	3.347	0.157	3.679	13004	14082

Okoguard®-Okoseal® Type IEC 60502-2

6, 10, 15, 20, 30 kV Shielded Power Cable

Three Okopact® (Compact Stranded) Copper Conductors/90°C Rating

Product Data Section 2: Sheet 44

US MEASUREMENTS

Catalog Number	Conductor Size - mm ²	Nominal Insulation Thickness - inches	Approx. Dia. over Insulation - inches	Approx. Dia. over Screen - inches	Approx. Core O.D. - inches	Jacket Thickness - inches	Approx. O.D. - inches	Approx. Net Weight - lbs./1000'	Approx. Ship Weight - lbs./1000'
20 kV Rated Cable									
115-23-0703	35	0.217	0.759	0.819	1.807	0.102	2.027	2217	2522
115-23-0705	50	0.217	0.801	0.861	1.898	0.106	2.126	2563	2931
115-23-0707	70	0.217	0.865	0.925	2.036	0.110	2.272	3126	3494
115-23-0709	95	0.217	0.932	0.992	2.180	0.114	2.424	3851	4224
115-23-0712	120	0.217	1.006	1.066	2.340	0.122	2.600	4553	5112
115-23-0715	150	0.217	1.070	1.130	2.479	0.126	2.747	5355	5947
115-23-0718	185	0.217	1.122	1.182	2.591	0.130	2.867	6063	6825
115-23-0724	240	0.217	1.214	1.274	2.790	0.138	3.082	7393	8155
115-23-0730	300	0.217	1.309	1.369	2.995	0.146	3.305	9016	9949
115-23-0740	400	0.217	1.427	1.487	3.250	0.154	3.576	10764	11697
115-23-0750	500	0.217	1.554	1.614	3.524	0.161	3.864	13545	15354

30 kV Rated Cable									
115-23-0805	50	0.315	1.001	1.061	2.330	0.122	2.590	3472	3952
115-23-0807	70	0.315	1.065	1.125	2.468	0.126	2.736	4048	4772
115-23-0809	95	0.315	1.132	1.192	2.612	0.130	2.888	4812	5536
115-23-0812	120	0.315	1.206	1.266	2.772	0.138	3.064	5522	6246
115-23-0815	150	0.315	1.270	1.330	2.911	0.142	3.211	6426	7211
115-23-0818	185	0.315	1.322	1.382	3.023	0.146	3.333	7110	7895
115-23-0824	240	0.315	1.414	1.474	3.222	0.154	3.548	8545	9478
115-23-0830	300	0.315	1.509	1.569	3.427	0.157	3.759	10232	11310
115-23-0840	400	0.315	1.627	1.687	3.682	0.169	4.038	12091	13900
115-23-0850	500	0.315	1.754	1.814	3.956	0.177	4.328	14959	16768

Visit Okonite's web site, www.okonite.com for the most up to date dimensions.

Ampacities

Refer to IEC 60502-2 Annex B for continuous current ratings of 1/C and 3/C cables.

Alternate Constructions

Contact Applications Engineering for design options.

Okoguard®-Okoseal® Type IEC 60502-2

6, 10, 15, 20, 30 kV Shielded Power Cable

Three Okopact® (Compact Stranded) Copper Conductors/90°C Rating

Product Data Section 2: Sheet 44

METRIC MEASUREMENTS

Catalog Number	Conductor Size - mm ²	Nominal Insulation Thickness - mm	Approx. Dia. over Insulation - mm	Approx. Dia. over Screen - mm	Approx. Core O.D. - mm	Jacket Thickness - mm	Approx. O.D. - mm	Approx. Net Weight - Kg/Km	Approx. Ship Weight - Kg/Km
6 kV Rated Cable									
114-23-0102	25	2.5	12.0	13.5	30.3	2.1	34.8	1775	1914
114-23-0103	35	2.5	13.1	14.6	32.6	2.1	37.1	2181	2339
114-23-0105	50	2.5	14.1	15.7	34.9	2.2	39.6	2601	2814
114-23-0107	70	2.5	15.8	17.3	38.4	2.3	43.4	3339	3583
114-23-0109	95	2.5	17.5	19.0	42.0	2.5	47.4	4218	4497
114-23-0112	120	2.5	19.4	20.9	46.1	2.6	51.6	5156	5537
114-23-0115	150	2.5	21.0	22.5	49.6	2.7	55.4	6309	6744
114-23-0118	185	2.5	22.3	23.8	52.4	2.8	58.4	7285	8117
114-23-0124	240	2.6	24.8	26.4	57.9	3.0	64.3	9261	10093
114-23-0130	300	2.8	27.7	29.2	64.0	3.2	70.8	11719	12600
114-23-0140	400	3.0	31.1	32.6	71.3	3.5	78.8	14265	15399
114-23-0150	500	3.2	34.7	36.2	79.2	3.8	87.3	18380	19768

10 kV Rated Cable									
115-23-0502	25	3.4	13.8	15.4	34.2	2.2	39.0	2070	2283
115-23-0503	35	3.4	14.9	16.4	36.5	2.3	41.5	2488	2821
115-23-0505	50	3.4	16.0	17.5	38.8	2.4	43.9	2919	3259
115-23-0507	70	3.4	17.6	19.1	42.3	2.5	47.7	3720	4059
115-23-0509	95	3.4	19.3	20.8	45.9	2.6	51.5	4620	5074
115-23-0512	120	3.4	21.2	22.7	50.0	2.8	56.0	5622	6169
115-23-0515	150	3.4	22.8	24.3	53.5	2.9	59.7	6815	7370
115-23-0518	185	3.4	24.1	25.7	56.4	3.0	62.8	7831	8386
115-23-0524	240	3.4	26.5	28.0	61.4	3.1	68.0	9712	10505
115-23-0530	300	3.4	28.9	30.4	66.6	3.3	73.6	12097	13231
115-23-0540	400	3.4	31.9	33.4	73.1	3.6	80.7	14605	15974
115-23-0550	500	3.4	35.1	36.6	80.1	3.8	88.1	18496	19884

15 kV Rated Cable									
115-23-0602	25	4.5	16.1	17.7	39.1	2.4	44.3	2452	2681
115-23-0603	35	4.5	17.2	18.7	41.4	2.4	46.5	2832	3171
115-23-0605	50	4.5	18.3	19.8	43.7	2.5	49.1	3367	3821
115-23-0607	70	4.5	19.9	21.4	47.2	2.7	53.0	4198	4651
115-23-0609	95	4.5	21.6	23.1	50.9	2.8	56.9	5169	5717
115-23-0612	120	4.5	23.5	25.0	54.9	2.9	61.1	6150	6758
115-23-0615	150	4.5	25.1	26.6	58.4	3.0	64.8	7446	8523
115-23-0618	185	4.5	26.2	27.7	60.8	3.1	67.4	8367	9215
115-23-0624	240	4.5	28.8	30.3	66.3	3.3	73.4	10422	11556
115-23-0630	300	4.5	31.2	32.7	71.6	3.5	79.0	12731	13865
115-23-0640	400	4.5	33.9	35.4	77.4	3.7	85.3	15264	16432
115-23-0650	500	4.5	37.4	38.9	85.0	4.0	93.4	19350	20954

Okoguard®-Okoseal® Type IEC 60502-2

6, 10, 15, 20, 30 kV Shielded Power Cable

Three Okopact® (Compact Stranded) Copper Conductors/90°C Rating

Product Data Section 2: Sheet 44

METRIC MEASUREMENTS

Catalog Number	Conductor Size - mm ²	Nominal Insulation Thickness - mm	Approx. Dia. over Insulation - mm	Approx. Dia. over Screen - mm	Approx. Core O.D. - mm	Jacket Thickness - mm	Approx. O.D. - mm	Approx. Net Weight - Kg/Km	Approx. Ship Weight - Kg/Km
20 kV Rated Cable									
115-23-0703	35	5.5	19.3	20.8	45.9	2.6	51.5	3299	3753
115-23-0705	50	5.5	20.3	21.9	48.2	2.7	54.0	3814	4361
115-23-0707	70	5.5	22.0	23.5	51.7	2.8	57.7	4651	5199
115-23-0709	95	5.5	23.7	25.2	55.4	2.9	61.6	5730	6285
115-23-0712	120	5.5	25.6	27.1	59.4	3.1	66.0	6775	7607
115-23-0715	150	5.5	27.2	28.7	63.0	3.2	69.8	7968	8849
115-23-0718	185	5.5	28.5	30.0	65.8	3.3	72.8	9022	10156
115-23-0724	240	5.5	30.8	32.4	70.9	3.5	78.3	11001	12135
115-23-0730	300	5.5	33.2	34.8	76.1	3.7	83.9	13416	14804
115-23-0740	400	5.5	36.2	37.8	82.6	3.9	90.8	16017	17405
115-23-0750	500	5.5	39.5	41.0	89.5	4.1	98.1	20155	22847

30kV Rated Cable									
115-23-0805	50	8.0	25.4	26.9	59.2	3.1	65.8	5166	5881
115-23-0807	70	8.0	27.1	28.6	62.7	3.2	69.5	6023	7101
115-23-0809	95	8.0	28.8	30.3	66.3	3.3	73.4	7160	8238
115-23-0812	120	8.0	30.6	32.2	70.4	3.5	77.8	8217	9294
115-23-0815	150	8.0	32.3	33.8	73.9	3.6	81.6	9562	10730
115-23-0818	185	8.0	33.6	35.1	76.8	3.7	84.7	10580	11748
115-23-0824	240	8.0	35.9	37.4	81.8	3.9	90.1	12715	14103
115-23-0830	300	8.0	38.3	39.9	87.0	4.0	95.5	15225	16829
115-23-0840	400	8.0	41.3	42.8	93.5	4.3	102.6	17991	20683
115-23-0850	500	8.0	44.6	46.1	100.5	4.5	109.9	22259	24951

Visit Okonite's web site, www.okonite.com for the most up to date dimensions.

Ampacities

Refer to IEC 60502-2 Annex B for continuous current ratings of 1/C and 3/C cables.

Alternate Constructions

Contact Applications Engineering for design options.



C-L-X[®] Aluminum Sheath* Type IEC 60502-2 6, 10, 15, 20, 30 kV Okoguard[®] Shielded Power Cable

One Okopact[®] (Compact Stranded) Copper Conductor/90°C Rating



- A Conductor - Compact Stranded Copper
- B Strand Screen - Extruded Semiconducting EPR
- C Insulation - Okoguard EPR
- D Insulation Screen - Extruded Semiconducting EPR
- E Shield - Copper Tape
- F Semiconducting Tape
- G Sheath - Impervious, Continuous, Corrugated Aluminum C-L-X
- H Jacket - Okoseal PVC

Insulation

Okoguard is Okonite's registered trade name for its exclusive ethylene-propylene rubber (EPR) based, thermosetting compound, whose optimum balance of electrical and physical properties is unequalled in other solid dielectrics. Okoguard insulation, with the distinctive red color and a totally integrated EPR system, provides the optimum balance of electrical and physical properties for long, problem free service.

The triple tandem extrusion of the screens with the insulation provides optimum electrical characteristics.

Assembly

The shielded insulated conductor is assembled with a semiconducting tape, encased by a continuously corrugated welded aluminum sheath (C-L-X). The impervious, continuous, corrugated aluminum C-L-X sheath provides complete protection against moisture, liquids and gases in addition to its excellent mechanical strength. In addition, the aluminum sheath has adequate ampacity capability to be used as a grounding conductor in U.S. National Electrical Code (NEC) non Hazardous Location (HL) areas.

Jacket

The Okoseal (PVC) flame retardant jacket supplied with this cable is mechanically rugged and has excellent resistance to oil and most chemicals.

Applications

C-L-X Type IEC 60502-2 cables are intended for use in fixed installations such as distribution networks or industrial applications.

C-L-X power cables are recommended as an economical alternate to a wire in conduit system.

Specifications

Conductor: Annealed uncoated copper compact stranded per IEC 60228.

Strand Screen: Extruded semiconducting EPR strand screen. Meets or exceeds the electrical and physical properties of IEC 60502-2.

Insulation: Meets or exceeds the electrical and physical properties of IEC 60502-2.

Insulation Screen: Extruded semiconducting EPR insulation screen applied directly over the insulation. Meets or exceeds the electrical and physical properties of IEC 60502-2.

Shield: 0.005 inches (0.127mm) bare copper tape helically applied with 10% minimum overlap, followed by a semiconducting tape.

Sheath: Close fitting, impervious, continuous, corrugated aluminum C-L-X per UL 1072. C-L-X is recognized as a grounding conductor by the U.S. National Electrical Code (NEC).

Jacket: Meets or exceeds the electrical and physical properties of IEC 60502-2.

Product Features

- Testing to IEC 60502-2 conducted by KEMA Nederland B.V.
- Conformance provided by means of Report of Performance TIC 1373-14.
- Passes optional flame spread requirements per IEC 60332-1-2.
- PVC jacket passes oil immersion requirements per IEC 60811-404.
- Passes IEC 60332-3-23 Category B vertical tray flame test.
- Triple tandem extruded, all EPR system.
- Okoguard cables meet or exceed all recognized industry standards.
- Excellent corona resistance.
- Screens are free stripping.
- Exceptional resistance to "treeing".
- Exceptional resistance to moisture.
- Resistant to most oils, acids, and alkalies.
- Sunlight resistant.
- Aluminum and coated copper conductors available.
- Continuous sheath provides grounding safety.
- Complete prepackaged, factory tested wiring system.

* Complete certification to IEC 60502-2 is not obtainable because this standard does not recognize continuously corrugated armor.

C-L-X[®] Aluminum Sheath* Type IEC 60502-2

6, 10, 15, 20, 30 kV Okoguard[®] Shielded Power Cable

One Okopact[®] (Compact Stranded) Copper Conductor/90°C Rating

Product Data Section 2: Sheet 45

US MEASUREMENTS

Catalog Number	Conductor Size - mm ²	Nominal Insulation Thickness - inches	Approx. Dia. over Insulation - inches	Approx. Dia. over Screen - inches	Approx. Core O.D. - inches	C-L-X O.D. - inches	Jacket Thickness - inches	Approx. O.D. - inches	Approx. Net Weight - lbs./1000'	Approx. Ship Weight - lbs./1000'
6 kV Rated Cable										
571-22-0002	25	0.098	0.481	0.541	0.593	0.799	0.067	0.949	510	577
571-22-0003	35	0.098	0.525	0.585	0.637	0.843	0.067	0.993	597	664
571-22-0005	50	0.098	0.565	0.625	0.677	0.886	0.071	1.044	699	766
571-22-0007	70	0.098	0.621	0.681	0.733	0.929	0.071	1.087	852	919
571-22-0009	95	0.098	0.688	0.748	0.799	1.020	0.075	1.186	1061	1141
571-22-0012	120	0.098	0.762	0.822	0.873	1.106	0.079	1.283	1287	1377
571-22-0015	150	0.098	0.850	0.910	0.961	1.193	0.083	1.378	1576	1692
571-22-0018	185	0.098	0.878	0.938	0.989	1.236	0.083	1.421	1760	1903
571-22-0024	240	0.102	0.931	0.991	1.042	1.288	0.083	1.473	2142	2285
571-22-0030	300	0.110	1.089	1.149	1.200	1.465	0.091	1.666	2758	2901
571-22-0040	400	0.118	1.237	1.297	1.348	1.644	0.098	1.861	3369	3635
571-22-0050	500	0.126	1.366	1.426	1.477	1.781	0.102	2.006	4233	4489
10 kV Rated Cable										
571-23-0102	25	0.134	0.545	0.605	0.657	0.843	0.067	0.993	559	626
571-23-0103	35	0.134	0.607	0.667	0.719	0.929	0.071	1.087	680	747
571-23-0105	50	0.134	0.645	0.705	0.756	0.972	0.075	1.138	782	862
571-23-0107	70	0.134	0.693	0.753	0.804	1.020	0.075	1.186	934	1014
571-23-0109	95	0.134	0.764	0.824	0.875	1.106	0.079	1.283	1172	1262
571-23-0112	120	0.134	0.844	0.904	0.955	1.193	0.083	1.378	1393	1495
571-23-0115	150	0.134	0.898	0.958	1.009	1.236	0.083	1.421	1633	1749
571-23-0118	185	0.134	0.950	1.010	1.061	1.288	0.083	1.473	1844	1987
571-23-0124	240	0.134	1.048	1.108	1.159	1.421	0.091	1.622	2293	2436
571-23-0130	300	0.134	1.137	1.197	1.248	1.514	0.091	1.715	2829	2993
571-23-0140	400	0.134	1.255	1.315	1.366	1.644	0.098	1.861	3392	3658
571-23-0150	500	0.134	1.382	1.442	1.493	1.781	0.102	2.006	4255	4511
15 kV Rated Cable										
571-23-0202	25	0.177	0.645	0.705	0.756	0.972	0.075	1.138	674	740
571-23-0203	35	0.177	0.683	0.743	0.794	1.020	0.075	1.186	765	831
571-23-0205	50	0.177	0.725	0.785	0.836	1.063	0.075	1.229	880	955
571-23-0207	70	0.177	0.783	0.843	0.894	1.106	0.079	1.283	1057	1132
571-23-0209	95	0.177	0.850	0.910	0.961	1.193	0.083	1.378	1282	1384
571-23-0212	120	0.177	0.930	0.990	1.041	1.288	0.083	1.473	1501	1618
571-23-0215	150	0.177	0.988	1.048	1.099	1.337	0.087	1.530	1762	1905
571-23-0218	185	0.177	1.048	1.108	1.159	1.421	0.091	1.622	2009	2152
571-23-0224	240	0.177	1.132	1.192	1.243	1.514	0.091	1.715	2457	2621
571-23-0230	300	0.177	1.237	1.297	1.348	1.644	0.098	1.861	3022	3288
571-23-0240	400	0.177	1.363	1.423	1.474	1.781	0.102	2.006	3596	3852
571-23-0250	500	0.177	1.480	1.540	1.591	1.915	0.106	2.148	4459	4806

C-L-X® Aluminum Sheath* Type IEC 60502-2

Product Data Section 2: Sheet 45

6, 10, 15, 20, 30 kV Okoguard® Shielded Power Cable

One Okopact® (Compact Stranded) Copper Conductor/90°C Rating

US MEASUREMENTS

Catalog Number	Conductor Size - mm ²	Nominal Insulation Thickness - inches	Approx. Dia. over Insulation - inches	Approx. Dia. over Screen - inches	Approx. Core O.D. - inches	C-L-X O.D. - inches	Jacket Thickness - inches	Approx. O.D. - inches	Approx. Net Weight - lbs./1000'	Approx. Ship Weight - lbs./1000'
20 kV Rated Cable										
571-23-0303	35	0.217	0.765	0.825	0.876	1.106	0.079	1.283	880	955
571-23-0305	50	0.217	0.805	0.865	0.916	1.150	0.079	1.327	985	1087
571-23-0307	70	0.217	0.883	0.943	0.994	1.236	0.083	1.421	1194	1296
571-23-0309	95	0.217	0.932	0.992	1.043	1.288	0.083	1.473	1386	1503
571-23-0312	120	0.217	1.008	1.068	1.119	1.374	0.087	1.567	1618	1752
571-23-0315	150	0.217	1.074	1.134	1.185	1.465	0.091	1.666	1946	2089
571-23-0318	185	0.217	1.122	1.182	1.233	1.514	0.091	1.715	2163	2327
571-23-0324	240	0.217	1.214	1.274	1.325	1.601	0.094	1.808	2595	2759
571-23-0330	300	0.217	1.323	1.383	1.434	1.739	0.098	1.956	3166	3432
571-23-0340	400	0.217	1.441	1.501	1.552	1.868	0.106	2.101	3753	4009
571-23-0350	500	0.217	1.570	1.630	1.681	2.012	0.110	2.253	4647	5206
30 kV Rated Cable										
571-23-0405	50	0.315	1.009	1.069	1.120	1.374	0.087	1.567	1267	1401
571-23-0407	70	0.315	1.065	1.125	1.176	1.421	0.091	1.622	1457	1591
571-23-0409	95	0.315	1.132	1.192	1.243	1.514	0.091	1.715	1733	1961
571-23-0412	120	0.315	1.206	1.266	1.317	1.601	0.094	1.808	1978	2206
571-23-0415	150	0.315	1.276	1.336	1.387	1.687	0.098	1.904	2291	2478
571-23-0418	185	0.315	1.324	1.384	1.435	1.739	0.098	1.956	2517	2704
571-23-0424	240	0.315	1.414	1.474	1.525	1.825	0.102	2.050	2971	3256
571-23-0430	300	0.315	1.529	1.589	1.640	1.956	0.106	2.189	3569	3861
571-23-0440	400	0.313	1.627	1.687	1.738	2.058	0.110	2.299	4122	4457
571-23-0450	500	0.315	1.766	1.826	1.877	2.231	0.118	2.488	5089	5659

Visit Okonite's web site, www.okonite.com for the most up to date dimensions.

Ampacities

Refer to IEC 60502-2 Annex B for continuous current ratings of 1/C and 3/C cables.

Alternate Constructions

Contact Applications Engineering for design options.

C-L-X[®] Aluminum Sheath* Type IEC 60502-2

6, 10, 15, 20, 30 kV Okoguard[®] Shielded Power Cable

One Okopact[®] (Compact Stranded) Copper Conductor/90°C Rating

Product Data Section 2: Sheet 45

METRIC MEASUREMENTS

Catalog Number	Conductor Size - mm ²	Nominal Insulation Thickness - mm	Approx. Dia. over Insulation - mm	Approx. Dia. over Screen - mm	Approx. Core O.D. - mm	C-L-X O.D. - mm	Jacket Thickness - mm	Approx. O.D. - mm	Approx. Net Weight - Kg/Km	Approx. Ship Weight - Kg/Km
6 kV Rated Cable										
571-22-0002	25	2.5	12.2	13.7	15.1	20.3	1.7	24.1	759	859
571-22-0003	35	2.5	13.3	14.9	16.2	21.4	1.7	25.2	888	988
571-22-0005	50	2.5	14.4	15.9	17.2	22.5	1.8	26.5	1040	1140
571-22-0007	70	2.5	15.8	17.3	18.6	23.6	1.8	27.6	1268	1367
571-22-0009	95	2.5	17.5	19.0	20.3	25.9	1.9	30.1	1579	1698
571-22-0012	120	2.5	19.4	20.9	22.2	28.1	2.0	32.6	1915	2049
571-22-0015	150	2.5	21.6	23.1	24.4	30.3	2.1	35.0	2345	2518
571-22-0018	185	2.5	22.3	23.8	25.1	31.4	2.1	36.1	2619	2832
571-22-0024	240	2.6	23.6	25.2	26.5	32.7	2.1	37.4	3187	3400
571-22-0030	300	2.8	27.7	29.2	30.5	37.2	2.3	42.3	4104	4317
571-22-0040	400	3.0	31.4	32.9	34.2	41.8	2.5	47.3	5013	5409
571-22-0050	500	3.2	34.7	36.2	37.5	45.2	2.6	51.0	6299	6680

10 kV Rated Cable										
571-23-0102	25	3.4	13.8	15.4	16.7	21.4	1.7	25.2	832	931
571-23-0103	35	3.4	15.4	16.9	18.3	23.6	1.8	27.6	1012	1112
571-23-0105	50	3.4	16.4	17.9	19.2	24.7	1.9	28.9	1164	1283
571-23-0107	70	3.4	17.6	19.1	20.4	25.9	1.9	30.1	1390	1509
571-23-0109	95	3.4	19.4	20.9	22.2	28.1	2.0	32.6	1744	1878
571-23-0112	120	3.4	21.4	23.0	24.3	30.3	2.1	35.0	2073	2225
571-23-0115	150	3.4	22.8	24.3	25.6	31.4	2.1	36.1	2430	2603
571-23-0118	185	3.4	24.1	25.7	26.9	32.7	2.1	37.4	2744	2957
571-23-0124	240	3.4	26.6	28.1	29.4	36.1	2.3	41.2	3412	3625
571-23-0130	300	3.4	28.9	30.4	31.7	38.5	2.3	43.6	4210	4454
571-23-0140	400	3.4	31.9	33.4	34.7	41.8	2.5	47.3	5047	5443
571-23-0150	500	3.4	35.1	36.6	37.9	45.2	2.6	51.0	6331	6712

15 kV Rated Cable										
571-23-0202	25	4.5	16.4	17.9	19.2	24.7	1.9	28.9	1003	1101
571-23-0203	35	4.5	17.3	18.9	20.2	25.9	1.9	30.1	1138	1237
571-23-0205	50	4.5	18.4	19.9	21.2	27.0	1.9	31.2	1309	1421
571-23-0207	70	4.5	19.9	21.4	22.7	28.1	2.0	32.6	1573	1684
571-23-0209	95	4.5	21.6	23.1	24.4	30.3	2.1	35.0	1908	2059
571-23-0212	120	4.5	23.6	25.1	26.4	32.7	2.1	37.4	2233	2408
571-23-0215	150	4.5	25.1	26.6	27.9	34.0	2.2	38.9	2622	2835
571-23-0218	185	4.5	26.6	28.1	29.4	36.1	2.3	41.2	2989	3202
571-23-0224	240	4.5	28.8	30.3	31.6	38.5	2.3	43.6	3656	3900
571-23-0230	300	4.5	31.4	32.9	34.2	41.8	2.5	47.3	4497	4893
571-23-0240	400	4.5	34.6	36.1	37.4	45.2	2.6	51.0	5351	5732
571-23-0250	500	4.5	37.6	39.1	40.4	48.6	2.7	54.6	6635	7151

C-L-X® Aluminum Sheath* Type IEC 60502-2

6, 10, 15, 20, 30 kV Okoguard® Shielded Power Cable

One Okopact® (Compact Stranded) Copper Conductor/90°C Rating

Product Data Section 2: Sheet 45

METRIC MEASUREMENTS

Catalog Number	Conductor Size - mm ²	Nominal Insulation Thickness - mm	Approx. Dia. over Insulation - mm	Approx. Dia. over Screen - mm	Approx. Core O.D. - mm	C-L-X O.D. - mm	Jacket Thickness - mm	Approx. O.D. - mm	Approx. Net Weight - Kg/Km	Approx. Ship Weight - Kg/Km
20kV Rated Cable										
571-23-0303	35	5.5	19.4	21.0	22.3	28.1	2.0	32.6	1309	1421
571-23-0305	50	5.5	20.4	22.0	23.3	29.2	2.0	33.7	1466	1617
571-23-0307	70	5.5	22.4	24.0	25.2	31.4	2.1	36.1	1777	1928
571-23-0309	95	5.5	23.7	25.2	26.5	32.7	2.1	37.4	2062	2236
571-23-0312	120	5.5	25.6	27.1	28.4	34.9	2.2	39.8	2408	2607
571-23-0315	150	5.5	27.3	28.8	30.1	37.2	2.3	42.3	2896	3108
571-23-0318	185	5.5	28.5	30.0	31.3	38.5	2.3	43.6	3219	3463
571-23-0324	240	5.5	30.8	32.4	33.7	40.7	2.4	45.9	3861	4105
571-23-0330	300	5.5	33.6	35.1	36.4	44.2	2.5	49.7	4711	5107
571-23-0340	400	5.5	36.6	38.1	39.4	47.4	2.7	53.4	5584	5965
571-23-0350	500	5.5	39.9	41.4	42.7	51.1	2.8	57.2	6915	7747
30 kV Rated Cable										
571-23-0405	50	8.0	25.6	27.2	28.4	34.9	2.2	39.8	1885	2085
571-23-0407	70	8.0	27.1	28.6	29.9	36.1	2.3	41.2	2168	2367
571-23-0409	95	8.0	28.8	30.3	31.6	38.5	2.3	43.6	2579	2918
571-23-0412	120	8.0	30.6	32.2	33.5	40.7	2.4	45.9	2943	3283
571-23-0415	150	8.0	32.4	33.9	35.2	42.8	2.5	48.4	3409	3687
571-23-0418	185	8.0	33.6	35.2	36.4	44.2	2.5	49.7	3745	4024
571-23-0424	240	8.0	35.9	37.4	38.7	46.4	2.6	52.1	4421	4845
571-23-0430	300	8.0	38.8	40.4	41.7	49.7	2.7	55.6	5311	5745
571-23-0440	400	8.0	41.3	42.8	44.1	52.3	2.8	58.4	6134	6632
571-23-0450	500	8.0	44.9	46.4	47.7	56.7	3.0	63.2	7572	8421

Visit Okonite's web site, www.okonite.com for the most up to date dimensions.

Ampacities

Refer to IEC 60502-2 Annex B for continuous current ratings of 1/C and 3/C cables.

Alternate Constructions

Contact Applications Engineering for design options.



C-L-X[®] Aluminum Sheath* Type IEC 60502-2 6, 10, 15, 20, 30 kV Okoguard[®] Shielded Power Cable Three Okopact[®] (Compact Stranded) Copper Conductors/90°C Rating



- A Conductor - Compact Stranded Copper
- B Strand Screen - Extruded Semiconducting EPR
- C Insulation - Okoguard EPR
- D Insulation Screen - Extruded Semiconducting EPR
- E Phase Identification Tape
- F Shield - Copper Tape
- G Fillers and Binder Tape
- H Sheath - Impervious, Continuous, Corrugated Aluminum C-L-X
- J Jacket - Okoseal PVC

Insulation

Okoguard is Okonite's registered trade name for its exclusive ethylene-propylene rubber (EPR) based, thermosetting compound, whose optimum balance of electrical and physical properties is unequalled in other solid dielectrics. Okoguard insulation, with the distinctive red color and a totally integrated EPR system, provides the optimum balance of electrical and physical properties for long, problem free service.

The triple tandem extrusion of the screens with the insulation provides optimum electrical characteristics.

Assembly

The shielded insulated conductors are assembled with fillers and a binder tape overall, encased by a continuously corrugated welded aluminum sheath (C-L-X). The impervious, continuous, corrugated aluminum C-L-X sheath provides complete protection against moisture, liquids and gases in addition to its excellent mechanical strength. In addition, the aluminum sheath has adequate ampacity capability to be used as a grounding conductor in U.S. National Electrical Code (NEC) non Hazardous Location (HL) areas.

Jacket

The Okoseal (PVC) flame retardant jacket supplied with this cable is mechanically rugged and has excellent resistance to oil and most chemicals.

Applications

C-L-X Type IEC 60502-2 cables are intended for use in fixed installations such as distribution networks or industrial applications.

C-L-X power cables are recommended as an economical alternate to a wire in conduit system.

Specifications

Conductor: Annealed uncoated copper compact stranded per IEC 60228.

Strand Screen: Extruded semiconducting EPR strand screen. Meets or exceeds the electrical and physical properties of IEC 60502-2.

Insulation: Meets or exceeds the electrical and physical properties of IEC 60502-2.

Insulation Screen: Extruded semiconducting EPR insulation screen applied directly over the insulation. Meets or exceeds the electrical and physical properties of IEC 60502-2.

Shield: 0.005 inches (0.127mm) bare copper tape helically applied with 10% minimum overlap.

Phase Identification: Color coded (black, red, blue) polyester ribbon laid longitudinally under the copper tape shield.

Assembly: Cabled with fillers and an overall binder tape.

Sheath: Close fitting, impervious, continuous, corrugated aluminum C-L-X per UL 1072. C-L-X is recognized as a grounding conductor by the U.S. National Electrical Code (NEC).

Jacket: Meets or exceeds the electrical and physical properties of IEC 60502-2 for polyvinyl chloride jackets.

Product Features

- Testing to IEC 60502-2 conducted by KEMA Nederland B.V.
- Conformance provided by means of Report of Performance TIC 1374-14.
- Passes optional flame spread requirements pre IEC 60332-1-2.
- PVC jacket passes oil immersion requirements per IEC 60811-404.
- Passes IEC 60332-3-22 Category A vertical tray flame test.
- Triple tandem extruded, all EPR system.
- Okoguard cables meet or exceed all recognized industry standards.
- Excellent corona resistance.
- Screens are free stripping.
- Exceptional resistance to "treeing".
- Exceptional resistance to moisture.
- Resistant to most oils, acids, and alkalis.
- Sunlight resistant.
- Aluminum and coated copper conductors available.
- Complete prepackaged, color coded, factory tested wiring system.
- Continuous sheath provides grounding safety.

* Complete certification to IEC 60502-2 is not obtainable because this standard does not recognize continuously corrugated armor.

C-L-X[®] Aluminum Sheath* Type IEC 60502-2

Product Data Section 2: Sheet 46

6, 10, 15, 20, 30 kV Okoguard[®] Shielded Power Cable

Three Okopact[®] (Compact Stranded) Copper Conductors/90°C Rating

US MEASUREMENTS

Catalog Number	Conductor Size - mm ²	Nominal Insulation Thickness - inches	Approx. Dia. over Insulation - inches	Approx. Dia. over Screen - inches	Approx. Core O.D. - inches	C-L-X O.D. - inches	Jacket Thickness - inches	Approx. O.D. - inches	Approx. Net Weight - lbs./1000'	Approx. Ship Weight - lbs./1000'
6 kV Rated Cable										
571-22-0102	25	0.098	0.473	0.533	1.191	1.465	0.091	1.661	1458	1601
571-22-0103	35	0.098	0.515	0.575	1.282	1.557	0.094	1.759	1755	1919
571-22-0105	50	0.098	0.557	0.617	1.387	1.687	0.098	1.899	2079	2266
571-22-0107	70	0.098	0.621	0.681	1.511	1.825	0.102	2.045	2590	2882
571-22-0109	95	0.098	0.688	0.748	1.653	1.956	0.106	2.184	3187	3479
571-22-0112	120	0.098	0.762	0.822	1.813	2.146	0.114	2.390	3984	4319
571-22-0115	150	0.098	0.826	0.886	1.952	2.318	0.122	2.578	4833	5403
571-22-0118	185	0.098	0.878	0.938	2.081	2.446	0.126	2.714	5544	6306
571-22-0124	240	0.102	0.978	1.038	2.280	2.666	0.134	2.950	6923	7685
571-22-0130	300	0.110	1.089	1.149	2.520	2.933	0.142	3.233	8731	9664
571-22-0140	400	0.118	1.223	1.283	2.809	3.275	0.154	3.601	10685	11707
571-22-0150	500	0.126	1.366	1.426	3.118	3.668	0.169	4.024	13791	15701
10 kV Rated Cable										
571-23-0502	25	0.134	0.545	0.605	1.347	1.644	0.098	1.856	1704	1891
571-23-0503	35	0.134	0.587	0.647	1.437	1.739	0.098	1.951	1986	2173
571-23-0505	50	0.134	0.629	0.689	1.528	1.825	0.102	2.045	2294	2586
571-23-0507	70	0.134	0.693	0.753	1.681	2.012	0.110	2.248	3000	3335
571-23-0509	95	0.134	0.760	0.82	1.809	2.146	0.114	2.390	3625	3960
571-23-0512	120	0.134	0.834	0.894	1.969	2.318	0.122	2.578	4350	4920
571-23-0515	150	0.134	0.898	0.958	2.120	2.489	0.126	2.757	5073	5783
571-23-0518	185	0.134	0.950	1.010	2.219	2.576	0.130	2.852	5908	6670
571-23-0524	240	0.134	1.042	1.102	2.433	2.851	0.138	3.143	7373	8306
571-23-0530	300	0.134	1.137	1.197	2.629	3.069	0.146	3.379	9051	10073
571-23-0540	400	0.134	1.255	1.315	2.897	3.410	0.157	3.742	10994	12803
571-23-0550	500	0.134	1.382	1.442	3.188	3.755	0.169	4.111	13964	15874
15 kV Rated Cable										
571-23-0602	25	0.177	0.635	0.695	1.552	1.868	0.106	2.096	2016	2301
571-23-0603	35	0.177	0.677	0.737	1.639	1.956	0.106	2.184	2284	2576
571-23-0605	50	0.177	0.719	0.779	1.720	2.058	0.110	2.294	2759	3094
571-23-0607	70	0.177	0.783	0.843	1.876	2.231	0.118	2.483	3388	3773
571-23-0609	95	0.177	0.850	0.910	2.003	2.361	0.122	2.621	4058	4443
571-23-0612	120	0.177	0.924	0.984	2.163	2.532	0.130	2.808	4790	5500
571-23-0615	150	0.177	0.988	1.048	2.307	2.709	0.134	2.993	5791	6553
571-23-0618	185	0.177	1.040	1.100	2.433	2.851	0.138	3.143	6510	7443
571-23-0624	240	0.177	1.132	1.192	2.629	3.069	0.146	3.379	7941	8963
571-23-0630	300	0.177	1.227	1.287	2.837	3.320	0.157	3.652	9724	10746
571-23-0640	400	0.177	1.345	1.405	3.073	3.625	0.165	3.973	11726	13636
571-23-0650	500	0.177	1.472	1.532	3.430	4.015	0.181	4.395	14791	16701

C-L-X[®] Aluminum Sheath* Type IEC 60502-2

Product Data Section 2: Sheet 46

6, 10, 15, 20, 30 kV Okoguard[®] Shielded Power Cable

Three Okopact[®] (Compact Stranded) Copper Conductors/90°C Rating

US MEASUREMENTS

Catalog Number	Conductor Size - mm ²	Nominal Insulation Thickness - inches	Approx. Dia. over Insulation - inches	Approx. Dia. over Screen - inches	Approx. Core O.D. - inches	C-L-X O.D. - inches	Jacket Thickness - inches	Approx. O.D. - inches	Approx. Net Weight - lbs./1000'	Approx. Ship Weight - lbs./1000'
20 kV Rated Cable										
571-23-0703	35	0.217	0.759	0.819	1.807	2.146	0.114	2.390	2737	3072
571-23-0705	50	0.217	0.801	0.861	1.917	2.276	0.118	2.528	3142	3527
571-23-0707	70	0.217	0.865	0.925	2.036	2.402	0.122	2.662	3721	4106
571-23-0709	95	0.217	0.932	0.992	2.199	2.576	0.130	2.852	4542	5304
571-23-0712	120	0.217	1.006	1.066	2.346	2.753	0.134	3.037	5333	6095
571-23-0715	150	0.217	1.070	1.130	2.479	2.891	0.142	3.191	6199	7132
571-23-0718	185	0.217	1.122	1.182	2.591	3.026	0.146	3.336	6963	7896
571-23-0724	240	0.217	1.214	1.274	2.790	3.275	0.154	3.601	8497	9519
571-23-0730	300	0.217	1.309	1.369	3.070	3.625	0.165	3.973	10551	12360
571-23-0740	400	0.217	1.427	1.487	3.430	4.015	0.181	4.395	12740	14650
571-23-0750	500	0.217	1.554	1.614	3.524	4.103	0.181	4.483	15184	17094
30 kV Rated Cable										
571-23-0805	50	0.315	1.001	1.061	2.346	2.753	0.134	3.037	4264	4735
571-23-0807	70	0.315	1.065	1.125	2.468	2.891	0.142	3.191	4895	5548
571-23-0809	95	0.315	1.132	1.192	2.629	3.069	0.146	3.379	5749	6771
571-23-0812	120	0.315	1.206	1.266	2.795	3.275	0.154	3.601	6657	7679
571-23-0815	150	0.315	1.270	1.330	2.911	3.410	0.157	3.742	7572	9381
571-23-0818	185	0.315	1.322	1.382	3.070	3.625	0.165	3.973	8600	10409
571-23-0824	240	0.315	1.414	1.474	3.228	3.798	0.173	4.162	10056	11865
571-23-0830	300	0.315	1.509	1.569	3.427	4.015	0.181	4.395	11873	13783
571-23-0840	400	0.315	1.627	1.687	3.700	4.318	0.189	4.714	13878	17678
571-23-0850	500	0.315	1.754	1.814	4.054	4.705	0.205	5.135	17198	20998

Visit Okonite's web site, www.okonite.com for the most up to date dimensions.

Ampacities

Refer to IEC 60502-2 Annex B for continuous current ratings of 1/C and 3/C cables.

Alternate Constructions

Contact Applications Engineering for design options.

C-L-X® Aluminum Sheath* Type IEC 60502-2

Product Data Section 2: Sheet 46

6, 10, 15, 20, 30 kV Okoguard® Shielded Power Cable

Three Okopact® (Compact Stranded) Copper Conductors/90°C Rating

METRIC MEASUREMENTS

Catalog Number	Conductor Size - mm ²	Nominal Insulation Thickness - mm	Approx. Dia. over Insulation - mm	Approx. Dia. over Screen - mm	Approx. Core O.D. - mm	C-L-X O.D. - mm	Jacket Thickness - mm	Approx. O.D. - mm	Approx. Net Weight - Kg/Km	Approx. Ship Weight - Kg/Km
6 kV Rated Cable										
571-22-0102	25	2.5	12.0	13.5	30.3	37.2	2.3	42.2	2170	2382
571-22-0103	35	2.5	13.1	14.6	32.6	39.5	2.4	44.7	2611	2855
571-22-0105	50	2.5	14.1	15.7	35.2	42.8	2.5	48.2	3094	3372
571-22-0107	70	2.5	15.8	17.3	38.4	46.4	2.6	51.9	3854	4288
571-22-0109	95	2.5	17.5	19.0	42.0	49.7	2.7	55.5	4742	5177
571-22-0112	120	2.5	19.4	20.9	46.1	54.5	2.9	60.7	5928	6427
571-22-0115	150	2.5	21.0	22.5	49.6	58.9	3.1	65.5	7192	8040
571-22-0118	185	2.5	22.3	23.8	52.9	62.1	3.2	68.9	8249	9383
571-22-0124	240	2.6	24.8	26.4	57.9	67.7	3.4	74.9	10301	11435
571-22-0130	300	2.8	27.7	29.2	64.0	74.5	3.6	82.1	12992	14380
571-22-0140	400	3.0	31.1	32.6	71.3	83.2	3.9	91.5	15899	17420
571-22-0150	500	3.2	34.7	36.2	79.2	93.2	4.3	102.2	20521	23363

10 kV Rated Cable										
571-23-0502	25	3.4	13.8	15.4	34.2	41.8	2.5	47.1	2536	2814
571-23-0503	35	3.4	14.9	16.4	36.5	44.2	2.5	49.6	2955	3233
571-23-0505	50	3.4	16.0	17.5	38.8	46.4	2.6	51.9	3413	3848
571-23-0507	70	3.4	17.6	19.1	42.7	51.1	2.8	57.1	4464	4962
571-23-0509	95	3.4	19.3	20.8	45.9	54.5	2.9	60.7	5394	5892
571-23-0512	120	3.4	21.2	22.7	50.0	58.9	3.1	65.5	6473	7321
571-23-0515	150	3.4	22.8	24.3	53.8	63.2	3.2	70.0	7549	8605
571-23-0518	185	3.4	24.1	25.7	56.4	65.4	3.3	72.4	8791	9925
571-23-0524	240	3.4	26.5	28.0	61.8	72.4	3.5	79.8	10971	12359
571-23-0530	300	3.4	28.9	30.4	66.8	78.0	3.7	85.8	13468	14989
571-23-0540	400	3.4	31.9	33.4	73.6	86.6	4.0	95.0	16359	19051
571-23-0550	500	3.4	35.1	36.6	81.0	95.4	4.3	104.4	20778	23621

15 kV Rated Cable										
571-23-0602	25	4.5	16.1	17.7	39.4	47.4	2.7	53.2	3000	3424
571-23-0603	35	4.5	17.2	18.7	41.6	49.7	2.7	55.5	3399	3833
571-23-0605	50	4.5	18.3	19.8	43.7	52.3	2.8	58.3	4105	4604
571-23-0607	70	4.5	19.9	21.4	47.7	56.7	3.0	63.1	5041	5614
571-23-0609	95	4.5	21.6	23.1	50.9	60.0	3.1	66.6	6038	6611
571-23-0612	120	4.5	23.5	25.0	54.9	64.3	3.3	71.3	7128	8184
571-23-0615	150	4.5	25.1	26.6	58.6	68.8	3.4	76.0	8617	9751
571-23-0618	185	4.5	26.4	27.9	61.8	72.4	3.5	79.8	9687	11075
571-23-0624	240	4.5	28.8	30.3	66.8	78.0	3.7	85.8	11816	13337
571-23-0630	300	4.5	31.2	32.7	72.1	84.3	4.0	92.8	14469	15990
571-23-0640	400	4.5	34.2	35.7	78.1	92.1	4.2	100.9	17448	20290
571-23-0650	500	4.5	37.4	38.9	87.1	102.0	4.6	111.6	22009	24851

C-L-X® Aluminum Sheath* Type IEC 60502-2

Product Data Section 2: Sheet 46

6, 10, 15, 20, 30 kV Okoguard® Shielded Power Cable

Three Okopact® (Compact Stranded) Copper Conductors/90°C Rating

METRIC MEASUREMENTS

Catalog Number	Conductor Size - mm ²	Nominal Insulation Thickness - mm	Approx. Dia. over Insulation - mm	Approx. Dia. over Screen - mm	Approx. Core O.D. - mm	C-L-X O.D. - mm	Jacket Thickness - mm	Approx. O.D. - mm	Approx. Net Weight - Kg/Km	Approx. Ship Weight - Kg/Km
20kV Rated Cable										
571-23-0703	35	5.5	19.3	20.8	45.9	54.5	2.9	60.7	4073	4571
571-23-0705	50	5.5	20.3	21.9	48.7	57.8	3.0	64.2	4675	5248
571-23-0707	70	5.5	22.0	23.5	51.7	61.0	3.1	67.6	5537	6110
571-23-0709	95	5.5	23.7	25.2	55.9	65.4	3.3	72.4	6758	7892
571-23-0712	120	5.5	25.6	27.1	59.6	69.9	3.4	77.1	7936	9069
571-23-0715	150	5.5	27.2	28.7	63.0	73.4	3.6	81.1	9224	10612
571-23-0718	185	5.5	28.5	30.0	65.8	76.9	3.7	84.7	10361	11749
571-23-0724	240	5.5	30.8	32.4	70.9	83.2	3.9	91.5	12644	14164
571-23-0730	300	5.5	33.2	34.8	78.0	92.1	4.2	100.9	15700	18392
571-23-0740	400	5.5	36.2	37.8	87.1	102.0	4.6	111.6	18957	21799
571-23-0750	500	5.5	39.5	41.0	89.5	104.2	4.6	113.9	22594	25436
30 kV Rated Cable										
571-23-0805	50	8.0	25.4	26.9	59.6	69.9	3.4	77.1	6345	7046
571-23-0807	70	8.0	27.1	28.6	62.7	73.4	3.6	81.1	7284	8255
571-23-0809	95	8.0	28.8	30.3	66.8	78.0	3.7	85.8	8555	10075
571-23-0812	120	8.0	30.6	32.2	71.0	83.2	3.9	91.5	9906	11426
571-23-0815	150	8.0	32.3	33.8	73.9	86.6	4.0	95.0	11267	13959
571-23-0818	185	8.0	33.6	35.1	78.0	92.1	4.2	100.9	12797	15489
571-23-0824	240	8.0	35.9	37.4	82.0	96.5	4.4	105.7	14963	17655
571-23-0830	300	8.0	38.3	39.9	87.0	102.0	4.6	111.6	17667	20509
571-23-0840	400	8.0	41.3	42.8	94.0	109.7	4.8	119.7	20650	26305
571-23-0850	500	8.0	44.6	46.1	103.0	119.5	5.2	130.4	25591	31245

Visit Okonite's web site, www.okonite.com for the most up to date dimensions.

Ampacities

Refer to IEC 60502-2 Annex B for continuous current ratings of 1/C and 3/C cables.

Alternate Constructions

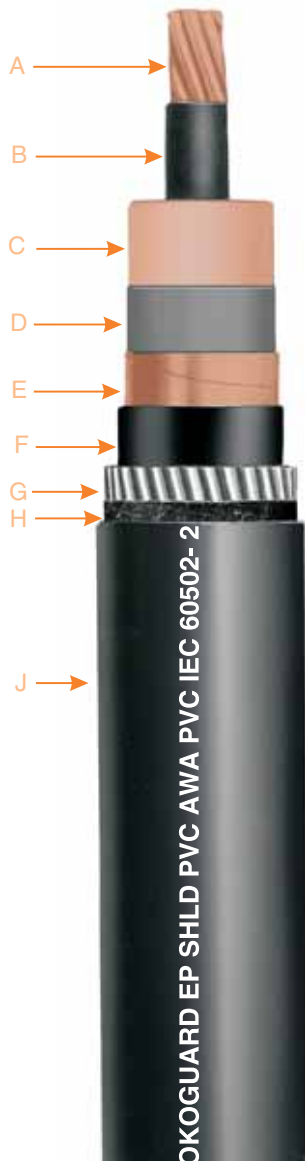
Contact Applications Engineering for design options.



Wire Armor Type IEC 60502-2

6, 10, 15, 20, 30 kV Okoguard Shielded Power Cable - Aluminum Wire Armor

One Okopact® (Compact Stranded) Copper Conductor/90°C Rating



- A Conductor - Compact Stranded Copper
- B Strand Screen - Extruded Semiconducting EPR
- C Insulation - Okoguard EPR
- D Insulation Screen - Extruded Semiconducting EPR
- E Shield - Copper Tape
- F Inner Jacket - Okoseal PVC
- G Armor - Round Aluminum Wires
- H Binder Tape
- J Outer Jacket - Okoseal PVC

Insulation

Okoguard is Okonite's registered trade name for its exclusive ethylene-propylene rubber (EPR) based, thermosetting compound, whose optimum balance of electrical and physical properties is unequalled in other solid dielectrics.

Okoguard insulation, with the distinctive red color and a totally integrated EPR system, provides the optimum balance of electrical and physical properties for long, problem free service.

The triple tandem extrusion of the screens with the insulation provides optimum electrical characteristics.

Assembly

The shielded insulated conductor is encased by multiple aluminum armor wires. The armor provides mechanical protection and longitudinal strength.

Jacket

The Okoseal (PVC) flame retardant jacket supplied with this cable is mechanically rugged and has excellent resistance to oil and most chemicals.

Applications

Wire Armor Type IEC 60502-2 cables are intended for use in fixed installations such as distribution networks or industrial applications.

Specifications

Conductor: Annealed uncoated copper compact stranded per IEC 60228.

Strand Screen: Extruded semiconducting EPR strand screen. Meets or exceeds the electrical and physical properties of IEC 60502-2.

Insulation: Meets or exceeds the electrical and physical properties of IEC 60502-2.

Insulation Screen: Extruded semiconducting EPR insulation screen applied directly over the insulation. Meets or exceeds the electrical and physical properties of IEC 60502-2.

Shield: 0.005 inches (0.127mm) bare copper tape helically applied with 10% minimum overlap.

Inner Jacket: Meets or exceeds the electrical and physical properties of IEC 60502-2 for polyvinyl chloride jackets.

Armor: Round aluminum wires, approximate 100% coverage, meeting the requirements of IEC 60502-2, followed by a binder tape.

Outer Jacket: Meets or exceeds the electrical and physical properties of IEC 60502-2 for polyvinyl chloride jackets.

Product Features

- Certification to IEC 60502-2 conducted by KEMA Nederland B.V.
- Conformance provided by means of Type Test Certificate TIC 1014-14.
- Passes optional flame spread requirements per IEC 60332-1-2.
- PVC jacket passes oil immersion requirements per IEC 60811-404.
- Passes IEC 60332-3-24 Category C vertical tray flame test.
- Triple tandem extruded, all EPR system.
- Okoguard cables meet or exceed all recognized industry standards.
- Excellent corona resistance.
- Screens are free stripping.
- Exceptional resistance to "treeing".
- Exceptional resistance to moisture.
- Resistant to most oils, acids, and alkalis.
- Sunlight resistant.
- Aluminum and coated copper conductors available.

Wire Armor Type IEC 60502-2

6, 10, 15, 20, 30 kV Okoguard Shielded Power Cable

- Aluminum Wire Armor

One Okopact® (Compact Stranded) Copper Conductor/90°C Rating

US MEASUREMENTS

Product Data Section 2: Sheet 47

Catalog Number	Conductor Size - mm ²	Nominal Insulation Thickness - inches	Approx. Dia. over Insulation - inches	Approx. Dia. over Screen - inches	Inner Jacket Thickness - inches	Approx. Dia. over Inner Jacket - inches	Approx. Number x Size of Armor Wires - inches	Approx. Dia. over Armor - inches	Outer Jacket Thickness - inches	Approx. O.D. - inches	Approx. Net Weight - lbs./1000'	Approx. Ship Weight - lbs./1000'
6 kV Rated Cable												
114-23-0062	25	0.098	0.473	0.533	0.040	0.633	31 x 0.063	0.759	0.067	0.925	597	643
114-23-0063	35	0.098	0.515	0.575	0.040	0.675	32 x 0.063	0.801	0.067	0.967	686	743
114-23-0065	50	0.098	0.557	0.617	0.040	0.717	34 x 0.063	0.843	0.071	1.017	796	853
114-23-0067	70	0.098	0.621	0.681	0.040	0.781	37 x 0.063	0.907	0.071	1.081	969	1026
114-23-0069	95	0.098	0.688	0.748	0.040	0.847	40 x 0.063	0.973	0.075	1.155	1182	1276
114-23-0072	120	0.098	0.762	0.822	0.040	0.921	43 x 0.063	1.047	0.075	1.230	1390	1496
114-23-0075	150	0.098	0.826	0.886	0.040	0.985	38 x 0.079	1.141	0.079	1.334	1717	1817
114-23-0078	185	0.098	0.878	0.938	0.040	1.037	40 x 0.079	1.193	0.083	1.394	1946	2062
114-23-0084	240	0.102	0.978	1.038	0.048	1.155	44 x 0.079	1.311	0.087	1.520	2415	2558
114-23-0093	300	0.110	1.089	1.149	0.048	1.266	48 x 0.079	1.422	0.091	1.650	2977	3154
114-23-0094	400	0.118	1.223	1.283	0.048	1.400	43 x 0.098	1.596	0.094	1.830	3665	3899
114-23-0095	500	0.126	1.366	1.426	0.056	1.561	47 x 0.098	1.757	0.102	2.009	4634	4981
10 kV Rated Cable												
115-23-0162	25	0.134	0.545	0.605	0.040	0.705	34 x 0.063	0.831	0.071	1.005	676	733
115-23-0163	35	0.134	0.587	0.647	0.040	0.747	36 x 0.063	0.873	0.071	1.047	772	829
115-23-0165	50	0.134	0.629	0.689	0.040	0.789	38 x 0.063	0.915	0.071	1.089	876	933
115-23-0167	70	0.134	0.693	0.753	0.040	0.852	40 x 0.063	0.978	0.075	1.160	1057	1123
115-23-0169	95	0.134	0.760	0.820	0.040	0.919	43 x 0.063	1.045	0.075	1.227	1267	1373
115-23-0172	120	0.134	0.834	0.894	0.040	0.993	38 x 0.079	1.149	0.079	1.342	1550	1652
115-23-0175	150	0.134	0.898	0.958	0.040	1.057	40 x 0.079	1.213	0.083	1.414	1826	1969
115-23-0178	185	0.134	0.950	1.010	0.048	1.127	43 x 0.079	1.283	0.087	1.489	2085	2228
115-23-0184	240	0.134	1.042	1.102	0.048	1.219	46 x 0.079	1.375	0.087	1.581	2509	2652
115-23-0193	300	0.134	1.137	1.197	0.048	1.314	50 x 0.079	1.470	0.091	1.698	3058	3235
115-23-0194	400	0.134	1.255	1.315	0.048	1.432	43 x 0.098	1.628	0.098	1.872	3735	4001
115-23-0195	500	0.134	1.382	1.442	0.056	1.577	48 x 0.098	1.773	0.102	2.025	4670	5060
15 kV Rated Cable												
115-23-0262	25	0.177	0.635	0.695	0.040	0.795	38 x 0.063	0.921	0.071	1.095	774	831
115-23-0263	35	0.177	0.677	0.737	0.040	0.836	40 x 0.063	0.962	0.075	1.144	877	943
115-23-0265	50	0.177	0.719	0.779	0.040	0.878	42 x 0.063	1.004	0.075	1.186	987	1053
115-23-0267	70	0.177	0.783	0.843	0.040	0.942	44 x 0.063	1.068	0.079	1.260	1179	1285
115-23-0269	95	0.177	0.850	0.910	0.040	1.009	39 x 0.079	1.165	0.083	1.365	1465	1567
115-23-0272	120	0.177	0.924	0.984	0.048	1.101	42 x 0.079	1.257	0.083	1.458	1715	1832
115-23-0275	150	0.177	0.988	1.048	0.048	1.165	44 x 0.079	1.321	0.087	1.530	1998	2141
115-23-0278	185	0.177	1.040	1.100	0.048	1.217	46 x 0.079	1.373	0.087	1.579	2222	2365
115-23-0284	240	0.177	1.132	1.192	0.048	1.309	50 x 0.079	1.465	0.091	1.679	2672	2815
115-23-0293	300	0.177	1.227	1.287	0.048	1.404	43 x 0.098	1.600	0.098	1.844	3343	3609
115-23-0294	400	0.177	1.345	1.405	0.056	1.540	47 x 0.098	1.736	0.102	1.988	3964	4220
115-23-0295	500	0.177	1.472	1.532	0.056	1.667	50 x 0.098	1.863	0.106	2.123	4866	5256

Wire Armor Type IEC 60502-2

6, 10, 15, 20, 30 kV Okoguard Shielded Power Cable

- Aluminum Wire Armor

One Okopact® (Compact Stranded) Copper Conductor/90°C Rating

US MEASUREMENTS

Product Data Section 2: Sheet 47

Catalog Number	Conductor Size - mm ²	Nominal Insulation Thickness - inches	Approx. Dia. over Insulation - inches	Approx. Dia. over Screen - inches	Inner Jacket Thickness - inches	Approx. Dia. over Inner Jacket - inches	Approx. Number x Size of Armor Wires - inches	Approx. Dia. over Armor - inches	Outer Jacket Thickness - inches	Approx. O.D. - inches	Approx. Net Weight - lbs./1000'	Approx. Ship Weight - lbs./1000'
20 kV Rated Cable												
115-23-0363	35	0.217	0.759	0.819	0.040	0.918	43 x 0.063	1.044	0.075	1.226	976	1051
115-23-0365	50	0.217	0.801	0.861	0.040	0.960	45 x 0.063	1.086	0.079	1.278	1099	1174
115-23-0367	70	0.217	0.865	0.925	0.040	1.024	39 x 0.079	1.180	0.083	1.380	1353	1455
115-23-0369	95	0.217	0.932	0.992	0.048	1.109	42 x 0.079	1.265	0.083	1.465	1606	1723
115-23-0372	120	0.217	1.006	1.066	0.048	1.183	45 x 0.079	1.339	0.087	1.548	1851	2011
115-23-0375	150	0.217	1.070	1.130	0.048	1.247	47 x 0.079	1.403	0.091	1.620	2140	2283
115-23-0378	185	0.217	1.122	1.182	0.048	1.299	49 x 0.079	1.455	0.091	1.669	2368	2511
115-23-0384	240	0.217	1.214	1.274	0.048	1.391	42 x 0.098	1.587	0.094	1.807	2917	3151
115-23-0393	300	0.217	1.309	1.369	0.056	1.504	46 x 0.098	1.700	0.098	1.944	3533	3799
115-23-0394	400	0.217	1.427	1.487	0.056	1.622	49 x 0.098	1.818	0.102	2.070	4126	4411
115-23-0395	500	0.217	1.554	1.614	0.056	1.749	53 x 0.098	1.945	0.110	2.213	5063	5463
30 kV Rated Cable												
115-23-0465	50	0.315	1.001	1.061	0.048	1.178	45 x 0.079	1.334	0.087	1.542	1490	1633
115-23-0467	70	0.315	1.065	1.125	0.048	1.242	47 x 0.079	1.398	0.091	1.614	1705	1848
115-23-0469	95	0.315	1.132	1.192	0.048	1.309	50 x 0.079	1.465	0.091	1.681	1949	2092
115-23-0472	120	0.315	1.206	1.266	0.048	1.383	42 x 0.098	1.579	0.094	1.802	2301	2465
115-23-0475	150	0.315	1.270	1.330	0.048	1.447	44 x 0.098	1.643	0.098	1.876	2615	2802
115-23-0478	185	0.315	1.322	1.382	0.056	1.517	46 x 0.098	1.713	0.098	1.946	2895	3161
115-23-0484	240	0.315	1.414	1.474	0.056	1.609	49 x 0.098	1.805	0.102	2.046	3380	3672
115-23-0493	300	0.315	1.509	1.569	0.056	1.704	51 x 0.098	1.900	0.106	2.160	3964	4249
115-23-0494	400	0.315	1.627	1.687	0.056	1.822	55 x 0.098	2.018	0.110	2.286	4591	5150
115-23-0495	500	0.315	1.754	1.814	0.063	1.963	59 x 0.098	2.159	0.114	2.435	5567	6126

Visit Okonite's web site, www.okonite.com for the most up to date dimensions.

Ampacities

Refer to IEC 60502-2 Annex B for continuous current ratings of 1/C and 3/C cables.

Alternate Constructions

Contact Applications Engineering for design options.

Wire Armor Type IEC 60502-2

6, 10, 15, 20, 30 kV Okoguard Shielded Power Cable

- Aluminum Wire Armor

One Okopact® (Compact Stranded) Copper Conductor/90°C Rating

METRIC MEASUREMENTS

Product Data
Section 2: Sheet 47

Catalog Number	Conductor Size - mm ²	Nominal Insulation Thickness - mm	Approx. Dia. over Insulation - mm	Approx. Dia. over Screen - mm	Inner Jacket Thickness - mm	Approx. Dia. over Inner Jacket - mm	Approx. Number x Size of Armor Wires - mm	Approx. Dia. over Armor - mm	Outer Jacket Thickness - mm	Approx. O.D. - mm	Approx. Net Weight - Kg/Km	Approx. Ship Weight - Kg/Km
6 kV Rated Cable												
114-23-0062	25	2.5	12.0	13.5	1.0	16.1	31 x 1.6	19.3	1.7	23.5	888	957
114-23-0063	35	2.5	13.1	14.6	1.0	17.1	32 x 1.6	20.3	1.7	24.6	1021	1106
114-23-0065	50	2.5	14.1	15.7	1.0	18.2	34 x 1.6	21.4	1.8	25.8	1184	1269
114-23-0067	70	2.5	15.8	17.3	1.0	19.8	37 x 1.6	23.0	1.8	27.5	1442	1527
114-23-0069	95	2.5	17.5	19.0	1.0	21.5	40 x 1.6	24.7	1.9	29.3	1759	1899
114-23-0072	120	2.5	19.4	20.9	1.0	23.4	43 x 1.6	26.6	1.9	31.2	2068	2226
114-23-0075	150	2.5	21.0	22.5	1.0	25.0	38 x 2.0	29.0	2.0	33.9	2555	2704
114-23-0078	185	2.5	22.3	23.8	1.0	26.3	40 x 2.0	30.3	2.1	35.4	2896	3068
114-23-0084	240	2.6	24.8	26.4	1.2	29.3	44 x 2.0	33.3	2.2	38.6	3594	3806
114-23-0093	300	2.8	27.7	29.2	1.2	32.2	48 x 2.0	36.1	2.3	41.9	4430	4693
114-23-0094	400	3.0	31.1	32.6	1.2	35.6	43 x 2.5	40.5	2.4	46.5	5454	5802
114-23-0095	500	3.2	34.7	36.2	1.4	39.6	47 x 2.5	44.6	2.6	51.0	6895	7412
10 kV Rated Cable												
115-23-0162	25	3.4	13.8	15.4	1.0	17.9	34 x 1.6	21.1	1.8	25.5	1006	1091
115-23-0163	35	3.4	14.9	16.4	1.0	19.0	36 x 1.6	22.2	1.8	26.6	1149	1234
115-23-0165	50	3.4	16.0	17.5	1.0	20.0	38 x 1.6	23.2	1.8	27.7	1303	1388
115-23-0167	70	3.4	17.6	19.1	1.0	21.6	40 x 1.6	24.8	1.9	29.5	1573	1671
115-23-0169	95	3.4	19.3	20.8	1.0	23.3	43 x 1.6	26.5	1.9	31.2	1885	2043
115-23-0172	120	3.4	21.2	22.7	1.0	25.2	38 x 2.0	29.2	2.0	34.1	2306	2458
115-23-0175	150	3.4	22.8	24.3	1.0	26.8	40 x 2.0	30.8	2.1	35.9	2717	2930
115-23-0178	185	3.4	24.1	25.7	1.2	28.6	43 x 2.0	32.6	2.2	37.8	3102	3315
115-23-0184	240	3.4	26.5	28.0	1.2	31.0	46 x 2.0	34.9	2.2	40.2	3733	3946
115-23-0193	300	3.4	28.9	30.4	1.2	33.4	50 x 2.0	37.3	2.3	43.1	4550	4814
115-23-0194	400	3.4	31.9	33.4	1.2	36.4	43 x 2.5	41.4	2.5	47.5	5558	5953
115-23-0195	500	3.4	35.1	36.6	1.4	40.1	48 x 2.5	45.0	2.6	51.4	6949	7529
15 kV Rated Cable												
115-23-0262	25	4.5	16.1	17.7	1.0	20.2	38 x 1.6	23.4	1.8	27.8	1152	1237
115-23-0263	35	4.5	17.2	18.7	1.0	21.2	40 x 1.6	24.4	1.9	29.1	1305	1403
115-23-0265	50	4.5	18.3	19.8	1.0	22.3	42 x 1.6	25.5	1.9	30.1	1469	1567
115-23-0267	70	4.5	19.9	21.4	1.0	23.9	44 x 1.6	27.1	2.0	32.0	1754	1912
115-23-0269	95	4.5	21.6	23.1	1.0	25.6	39 x 2.0	29.6	2.1	34.7	2180	2332
115-23-0272	120	4.5	23.5	25.0	1.2	28.0	42 x 2.0	31.9	2.1	37.0	2552	2726
115-23-0275	150	4.5	25.1	26.6	1.2	29.6	44 x 2.0	33.6	2.2	38.9	2973	3186
115-23-0278	185	4.5	26.4	27.9	1.2	30.9	46 x 2.0	34.9	2.2	40.1	3306	3519
115-23-0284	240	4.5	28.8	30.3	1.2	33.2	50 x 2.0	37.2	2.3	42.6	3976	4189
115-23-0293	300	4.5	31.2	32.7	1.2	35.7	43 x 2.5	40.6	2.5	46.8	4974	5370
115-23-0294	400	4.5	34.2	35.7	1.4	39.1	47 x 2.5	44.1	2.6	50.5	5898	6279
115-23-0295	500	4.5	37.4	38.9	1.4	42.3	50 x 2.5	47.3	2.7	53.9	7241	7821

Wire Armor Type IEC 60502-2

6, 10, 15, 20, 30 kV Okoguard Shielded Power Cable

- Aluminum Wire Armor

One Okopact® (Compact Stranded) Copper Conductor/90°C Rating

METRIC MEASUREMENTS

Product Data Section 2: Sheet 47

Catalog Number	Conductor Size - mm ²	Nominal Insulation Thickness - mm	Approx. Dia. over Insulation - mm	Approx. Dia. over Screen - mm	Inner Jacket Thickness - mm	Approx. Dia. over Inner Jacket - mm	Approx. Number x Size of Armor Wires - mm	Approx. Dia. over Armor - mm	Outer Jacket Thickness - mm	Approx. O.D. - mm	Approx. Net Weight - Kg/Km	Approx. Ship Weight - Kg/Km
20kV Rated Cable												
115-23-0363	35	5.5	19.3	20.8	1.0	23.3	43 x 1.6	26.5	1.9	31.1	1452	1564
115-23-0365	50	5.5	20.3	21.9	1.0	24.4	45 x 1.6	27.6	2.0	32.5	1635	1747
115-23-0367	70	5.5	22.0	23.5	1.0	26.0	39 x 2.0	30.0	2.1	35.1	2013	2165
115-23-0369	95	5.5	23.7	25.2	1.2	28.2	42 x 2.0	32.1	2.1	37.2	2390	2564
115-23-0372	120	5.5	25.6	27.1	1.2	30.0	45 x 2.0	34.0	2.2	39.3	2754	2992
115-23-0375	150	5.5	27.2	28.7	1.2	31.7	47 x 2.0	35.6	2.3	41.1	3184	3397
115-23-0378	185	5.5	28.5	30.0	1.2	33.0	49 x 2.0	37.0	2.3	42.4	3524	3736
115-23-0384	240	5.5	30.8	32.4	1.2	35.3	42 x 2.5	40.3	2.4	45.9	4340	4689
115-23-0393	300	5.5	33.2	34.8	1.4	38.2	46 x 2.5	43.2	2.5	49.4	5257	5653
115-23-0394	400	5.5	36.2	37.8	1.4	41.2	49 x 2.5	46.2	2.6	52.6	6139	6564
115-23-0395	500	5.5	39.5	41.0	1.4	44.4	53 x 2.5	49.4	2.8	56.2	7534	8129
30 kV Rated Cable												
115-23-0465	50	8.0	25.4	26.9	1.2	29.9	45 x 2.0	33.9	2.2	39.2	2217	2430
115-23-0467	70	8.0	27.1	28.6	1.2	31.5	47 x 2.0	35.5	2.3	41.0	2537	2750
115-23-0469	95	8.0	28.8	30.3	1.2	33.2	50 x 2.0	37.2	2.3	42.7	2900	3113
115-23-0472	120	8.0	30.6	32.2	1.2	35.1	42 x 2.5	40.1	2.4	45.8	3424	3668
115-23-0475	150	8.0	32.3	33.8	1.2	36.8	44 x 2.5	41.7	2.5	47.7	3891	4169
115-23-0478	185	8.0	33.6	35.1	1.4	38.5	46 x 2.5	43.5	2.5	49.4	4308	4704
115-23-0484	240	8.0	35.9	37.4	1.4	40.9	49 x 2.5	45.8	2.6	52.0	5029	5464
115-23-0493	300	8.0	38.3	39.9	1.4	43.3	51 x 2.5	48.3	2.7	54.9	5898	6323
115-23-0494	400	8.0	41.3	42.8	1.4	46.3	55 x 2.5	51.3	2.8	58.1	6831	7663
115-23-0495	500	8.0	44.6	46.1	1.6	49.9	59 x 2.5	54.8	2.9	61.8	8284	9115

Visit Okonite's web site, www.okonite.com for the most up to date dimensions.

Ampacities

Refer to IEC 60502-2 Annex B for continuous current ratings of 1/C and 3/C cables.

Alternate Constructions

Contact Applications Engineering for design options.



Wire Armor Type IEC 60502-2

6, 10, 15, 20, 30 kV Okoguard Shielded Power Cable - Galvanized Steel Wire Armor

Three Okopact® (Compact Stranded) Copper Conductors/90°C Rating



- A Conductor - Compact Stranded Copper
- B Strand Screen - Extruded Semiconducting EPR
- C Insulation - Okoguard EPR
- D Insulation Screen - Extruded Semiconducting EPR
- E Phase Identification Tape
- F Shield - Copper Tape
- G Fillers and Binder Tape
- H Inner Jacket - Okoseal PVC
- J Armor - Round Galvanized Steel Wires
- K Binder Tape
- L Outer Jacket - Okoseal PVC

Insulation

Okoguard is Okonite's registered trade name for its exclusive ethylene-propylene rubber (EPR) based, thermosetting compound, whose optimum balance of electrical and physical properties is unequalled in other solid dielectrics. Okoguard insulation, with the distinctive red color and a totally integrated EPR system, provides the optimum balance of electrical and physical properties for long, problem free service.

The triple tandem extrusion of the screens with the insulation provides optimum electrical characteristics.

Assembly

The shielded insulated conductors are assembled with fillers and a binder tape overall, encased by multiple galvanized steel armor wires. The armor provides mechanical protection and longitudinal strength.

Jacket

The Okoseal (PVC) flame retardant jacket supplied with this cable is mechanically rugged and has excellent resistance to oil and most chemicals.

Applications

Wire Armor Type IEC 60502-2 cables are intended for use in fixed installations such as distribution networks or industrial applications.

Specifications

Conductor: Annealed uncoated copper compact stranded per IEC 60228.

Strand Screen: Extruded semiconducting EPR strand screen. Meets or exceeds the electrical and physical properties of IEC 60502-2.

Insulation: Meets or exceeds the electrical and physical properties of IEC 60502-2.

Insulation Screen: Extruded semiconducting EPR insulation screen applied directly over the insulation. Meets or exceeds the electrical and physical properties of IEC 60502-2.

Shield: 0.005 inches (0.127mm) bare copper tape helically applied with 10% minimum overlap.

Phase Identification: Color coded (black, red, blue) polyester ribbon laid longitudinally under the copper tape shield.

Assembly: Cabled with fillers and an overall binder tape.

Inner Jacket: Meets or exceeds the electrical and physical properties of IEC 60502-2 for polyvinyl chloride jackets.

Armor: Round galvanized steel wires, approximate 100% coverage, meeting the requirements of IEC 60502, followed by a binder tape.

Outer Jacket: Meets or exceeds the electrical and physical properties of IEC 60502-2 for polyvinyl chloride jackets.

Product Features

- Certification to IEC 60502-2 conducted by KEMA Nederland B.V.
- Conformance provided by means of Type Test Certificate TIC 1015-14.
- Passes optional flame spread requirements pre IEC 60332-1-2.
- PVC jacket passes oil immersion requirements per IEC 60811-404.
- Passes IEC 60332-3-22 Category A vertical tray flame test.
- Triple tandem extruded, all EPR system.
- Okoguard cables meet or exceed all recognized industry standards.
- Excellent corona resistance.
- Screens are free stripping.
- Exceptional resistance to "treeing".
- Exceptional resistance to moisture.
- Resistant to most oils, acids, and alkalis.
- Sunlight resistant.
- Aluminum and coated copper conductors available.
- Complete prepackaged, color coded, factory tested wiring system.

Wire Armor Type IEC 60502-2

6, 10, 15, 20, 30 kV Okoguard Shielded Power Cable

- Galvanized Steel Wire Armor

Three Okopact® (Compact Stranded) Copper Conductors/90°C Rating

US MEASUREMENTS

Product Data Section 2: Sheet 48

Catalog Number	Conductor Size - mm ²	Nominal Insulation Thickness - inches	Approx. Dia. over Insulation - inches	Approx. Dia. over Screen - inches	Approx. Core O.D. - inches	Inner Jacket Thickness - inches	Approx. Dia. over Inner Jacket - inches	Approx. Number x Size of Armor Wires - inches	Approx. Dia. over Armor - inches	Outer Jacket Thickness - inches	Approx. O.D. - inches	Approx. Net Wt. - lbs./1000'	Approx. Ship Wt. - lbs./1000'
6 kV Rated Cable													
114-23-0162	25	0.098	0.473	0.533	1.195	0.048	1.301	49 x 0.079	1.459	0.091	1.687	2242	2385
114-23-0163	35	0.098	0.515	0.575	1.286	0.048	1.392	42 x 0.098	1.589	0.094	1.823	2807	2994
114-23-0165	50	0.098	0.557	0.617	1.377	0.048	1.483	45 x 0.098	1.680	0.098	1.924	3193	3459
114-23-0167	70	0.098	0.621	0.681	1.515	0.056	1.639	49 x 0.098	1.836	0.106	2.096	3868	4160
114-23-0169	95	0.098	0.688	0.748	1.657	0.056	1.781	54 x 0.098	1.978	0.110	2.246	4708	5160
114-23-0172	120	0.098	0.762	0.822	1.817	0.063	1.955	59 x 0.098	2.152	0.114	2.428	5509	5882
114-23-0175	150	0.098	0.826	0.886	1.956	0.063	2.094	63 x 0.098	2.291	0.122	2.583	6435	7055
114-23-0178	185	0.098	0.878	0.938	2.068	0.063	2.206	66 x 0.098	2.403	0.126	2.703	7181	8206
114-23-0184	240	0.102	0.978	1.038	2.284	0.063	2.422	58 x 0.124	2.670	0.134	2.986	8984	9604
114-23-0193	300	0.110	1.089	1.149	2.524	0.071	2.678	64 x 0.124	2.926	0.142	3.258	10933	12063
114-23-0194	400	0.118	1.223	1.283	2.813	0.071	2.967	70 x 0.124	3.215	0.154	3.573	12990	14120
114-23-0195	500	0.126	1.366	1.426	3.122	0.071	3.276	78 x 0.124	3.524	0.165	3.904	16052	17652
10 kV Rated Cable													
115-23-0562	25	0.134	0.545	0.605	1.351	0.048	1.457	44 x 0.098	1.654	0.098	1.898	2802	2989
115-23-0563	35	0.134	0.587	0.647	1.441	0.056	1.565	47 x 0.098	1.762	0.102	2.014	3199	3491
115-23-0565	50	0.134	0.629	0.689	1.532	0.056	1.656	50 x 0.098	1.853	0.106	2.113	3607	3899
115-23-0567	70	0.134	0.693	0.753	1.668	0.056	1.792	54 x 0.098	1.989	0.110	2.257	4235	4570
115-23-0569	95	0.134	0.760	0.820	1.813	0.063	1.951	59 x 0.098	2.148	0.114	2.424	5145	5765
115-23-0572	120	0.134	0.834	0.894	1.973	0.063	2.111	63 x 0.098	2.308	0.122	2.600	5948	6568
115-23-0575	150	0.134	0.898	0.958	2.111	0.063	2.249	67 x 0.098	2.446	0.126	2.746	6867	7487
115-23-0578	185	0.134	0.950	1.010	2.223	0.063	2.361	71 x 0.098	2.558	0.130	2.866	7643	8668
115-23-0584	240	0.134	1.042	1.102	2.422	0.071	2.576	62 x 0.124	2.824	0.138	3.148	9495	10625
115-23-0593	300	0.134	1.137	1.197	2.627	0.071	2.781	66 x 0.124	3.029	0.146	3.371	11296	12426
115-23-0594	400	0.134	1.255	1.315	2.882	0.071	3.036	72 x 0.124	3.284	0.154	3.642	13231	14781
115-23-0595	500	0.134	1.382	1.442	3.156	0.079	3.328	79 x 0.124	3.576	0.165	3.956	16274	17824
15 kV Rated Cable													
115-23-0662	25	0.177	0.635	0.695	1.545	0.056	1.669	50 x 0.098	1.866	0.106	2.126	3296	3588
115-23-0663	35	0.177	0.677	0.737	1.634	0.056	1.758	53 x 0.098	1.955	0.106	2.183	3721	4013
115-23-0665	50	0.177	0.719	0.779	1.724	0.056	1.848	56 x 0.098	2.045	0.110	2.313	4162	4614
115-23-0667	70	0.177	0.783	0.843	1.863	0.063	2.001	60 x 0.098	2.198	0.118	2.482	4887	5507
115-23-0669	95	0.177	0.850	0.910	2.007	0.063	2.145	64 x 0.098	2.342	0.122	2.634	5678	6298
115-23-0672	120	0.177	0.924	0.984	2.167	0.063	2.305	69 x 0.098	2.502	0.130	2.810	6497	7359
115-23-0675	150	0.177	0.988	1.048	2.305	0.063	2.443	58 x 0.124	2.691	0.134	3.007	7763	8527
115-23-0678	185	0.177	1.040	1.100	2.418	0.071	2.572	61 x 0.124	2.820	0.138	3.144	8623	9753
115-23-0684	240	0.177	1.132	1.192	2.616	0.071	2.770	66 x 0.124	3.018	0.146	3.360	10158	11288
115-23-0693	300	0.177	1.227	1.287	2.822	0.071	2.976	71 x 0.124	3.224	0.154	3.582	11969	13519
115-23-0694	400	0.177	1.345	1.405	3.077	0.071	3.231	77 x 0.124	3.479	0.161	3.851	13958	15508
115-23-0695	500	0.177	1.472	1.532	3.351	0.079	3.523	83 x 0.124	3.771	0.173	4.167	17027	18577

Wire Armor Type IEC 60502-2

6, 10, 15, 20, 30 kV Okoguard Shielded Power Cable

- Galvanized Steel Wire Armor

Three Okopact® (Compact Stranded) Copper Conductors/90°C Rating

US MEASUREMENTS

Product Data
Section 2: Sheet 48

Catalog Number	Conductor Size - mm ²	Nominal Insulation Thickness - inches	Approx. Dia. over Insulation - inches	Approx. Dia. over Screen - inches	Approx. Core O.D. - inches	Inner Jacket Thickness - inches	Approx. Dia. over Inner Jacket - inches	Approx. Number x Size of Armor Wires - inches	Approx. Dia. over Armor - inches	Outer Jacket Thickness - inches	Approx. O.D. - inches	Approx. Net Wt. - lbs./1000'	Approx. Ship Wt. - lbs./1000'
20 kV Rated Cable													
115-23-0763	35	0.217	0.759	0.819	1.811	0.063	1.949	59 x 0.098	2.146	0.114	2.422	4255	5021
115-23-0765	50	0.217	0.801	0.861	1.902	0.063	2.040	61 x 0.098	2.237	0.118	2.521	4680	5300
115-23-0767	70	0.217	0.865	0.925	2.040	0.063	2.178	65 x 0.098	2.375	0.122	2.667	5362	5982
115-23-0769	95	0.217	0.932	0.992	2.184	0.063	2.322	69 x 0.098	2.519	0.130	2.827	6211	6975
115-23-0772	120	0.217	1.006	1.066	2.344	0.063	2.482	59 x 0.124	2.730	0.138	3.054	7360	8124
115-23-0775	150	0.217	1.070	1.130	2.483	0.063	2.621	63 x 0.124	2.869	0.142	3.201	8333	9463
115-23-0778	185	0.217	1.122	1.182	2.595	0.071	2.749	65 x 0.124	2.997	0.146	3.339	9210	10340
115-23-0784	240	0.217	1.214	1.274	2.794	0.071	2.948	70 x 0.124	3.196	0.154	3.554	10775	11905
115-23-0793	300	0.217	1.309	1.369	2.999	0.071	3.153	75 x 0.124	3.401	0.161	3.773	12630	14180
115-23-0794	400	0.217	1.427	1.487	3.254	0.079	3.426	81 x 0.124	3.674	0.169	4.062	14723	16273
115-23-0795	500	0.217	1.554	1.614	3.528	0.079	3.700	87 x 0.124	3.948	0.177	4.352	17738	19648
30 kV Rated Cable													
115-23-0865	50	0.315	1.001	1.061	2.334	0.063	2.472	59 x 0.124	2.72	0.134	3.036	6244	7008
115-23-0867	70	0.315	1.065	1.125	2.472	0.071	2.626	63 x 0.124	2.874	0.142	3.206	7075	8595
115-23-0869	95	0.315	1.132	1.192	2.593	0.071	2.747	65 x 0.124	2.995	0.146	3.337	7659	9179
115-23-0872	120	0.315	1.206	1.266	2.776	0.071	2.930	70 x 0.124	3.178	0.154	3.536	8883	10013
115-23-0875	150	0.315	1.270	1.330	2.915	0.071	3.069	73 x 0.124	3.317	0.157	3.681	9899	11449
115-23-0878	185	0.315	1.322	1.382	3.027	0.071	3.181	75 x 0.124	3.429	0.161	3.801	10755	12305
115-23-0884	240	0.315	1.414	1.474	3.226	0.079	3.398	80 x 0.124	3.646	0.169	4.034	12472	14022
115-23-0893	300	0.315	1.509	1.569	3.431	0.079	3.603	85 x 0.124	3.851	0.177	4.255	14404	16314
115-23-0894	400	0.315	1.627	1.687	3.686	0.079	3.858	91 x 0.124	4.106	0.185	4.526	16506	20306
115-23-0895	500	0.315	1.754	1.814	3.960	0.079	4.132	97 x 0.124	4.380	0.193	4.818	19629	23429

Visit Okonite's web site, www.okonite.com for the most up to date dimensions.

Ampacities

Refer to IEC 60502-2 Annex B for continuous current ratings of 1/C and 3/C cables.

Alternate Constructions

Contact Applications Engineering for design options.

Wire Armor Type IEC 60502-2

6, 10, 15, 20, 30 kV Okoguard Shielded Power Cable

- Galvanized Steel Wire Armor

Three Okopact® (Compact Stranded) Copper Conductors/90°C Rating

METRIC MEASUREMENTS

Product Data Section 2: Sheet 48

Catalog Number	Conductor Size - mm ²	Nominal Insulation Thickness - mm	Approx. Dia. over Insulation - mm	Approx. Dia. over Screen - mm	Approx. Core O.D. - mm	Inner Jacket Thickness - mm	Approx. Dia. over Inner Jacket - mm	Approx. Number x Size of Armor Wires - mm	Approx. Dia. over Armor - mm	Outer Jacket Thickness - mm	Approx. O.D. - mm	Approx. Net Wt. - Kg/Km	Approx. Ship Wt. - Kg/Km
6 kV Rated Cable													
114-23-0162	25	2.5	12.0	13.5	30.4	1.2	33.0	49 x 2.0	37.1	2.3	42.8	3336	3549
114-23-0163	35	2.5	13.1	14.6	32.7	1.2	35.4	42 x 2.5	40.4	2.4	46.3	4177	4455
114-23-0165	50	2.5	14.1	15.7	35.0	1.2	37.7	45 x 2.5	42.7	2.5	48.9	4751	5147
114-23-0167	70	2.5	15.8	17.3	38.5	1.4	41.6	49 x 2.5	46.6	2.7	53.2	5756	6190
114-23-0169	95	2.5	17.5	19.0	42.1	1.4	45.2	54 x 2.5	50.2	2.8	57.0	7006	7678
114-23-0172	120	2.5	19.4	20.9	46.2	1.6	49.7	59 x 2.5	54.7	2.9	61.7	8197	8752
114-23-0175	150	2.5	21.0	22.5	49.7	1.6	53.2	63 x 2.5	58.2	3.1	65.6	9575	10498
114-23-0178	185	2.5	22.3	23.8	52.5	1.6	56.0	66 x 2.5	61.0	3.2	68.7	10685	12211
114-23-0184	240	2.6	24.8	26.4	58.0	1.6	61.5	58 x 3.15	67.8	3.4	75.8	13368	14291
114-23-0193	300	2.8	27.7	29.2	64.1	1.8	68.0	64 x 3.15	74.3	3.6	82.8	16268	17950
114-23-0194	400	3.0	31.1	32.6	71.5	1.8	75.4	70 x 3.15	81.7	3.9	90.8	19329	21011
114-23-0195	500	3.2	34.7	36.2	79.3	1.8	83.2	78 x 3.15	89.5	4.2	99.2	23885	26266
10 kV Rated Cable													
115-23-0562	25	3.4	13.8	15.4	34.3	1.2	37.0	44 x 2.5	42.0	2.5	48.2	4169	4448
115-23-0563	35	3.4	14.9	16.4	36.6	1.4	39.8	47 x 2.5	44.8	2.6	51.2	4760	5195
115-23-0565	50	3.4	16.0	17.5	38.9	1.4	42.1	50 x 2.5	47.1	2.7	53.7	5367	5802
115-23-0567	70	3.4	17.6	19.1	42.4	1.4	45.5	54 x 2.5	50.5	2.8	57.3	6302	6800
115-23-0569	95	3.4	19.3	20.8	46.1	1.6	49.6	59 x 2.5	54.6	2.9	61.6	7656	8578
115-23-0572	120	3.4	21.2	22.7	50.1	1.6	53.6	63 x 2.5	58.6	3.1	66.0	8851	9773
115-23-0575	150	3.4	22.8	24.3	53.6	1.6	57.1	67 x 2.5	62.1	3.2	69.7	10218	11141
115-23-0578	185	3.4	24.1	25.7	56.5	1.6	60.0	71 x 2.5	65.0	3.3	72.8	11373	12898
115-23-0584	240	3.4	26.5	28.0	61.5	1.8	65.4	62 x 3.15	71.7	3.5	80.0	14129	15810
115-23-0593	300	3.4	28.9	30.4	66.7	1.8	70.6	66 x 3.15	76.9	3.7	85.6	16808	18490
115-23-0594	400	3.4	31.9	33.4	73.2	1.8	77.1	72 x 3.15	83.4	3.9	92.5	19688	21994
115-23-0595	500	3.4	35.1	36.6	80.2	2.0	84.5	79 x 3.15	90.8	4.2	100.5	24216	26522
15 kV Rated Cable													
115-23-0662	25	4.5	16.1	17.7	39.2	1.4	42.4	50 x 2.5	47.4	2.7	54.0	4904	5339
115-23-0663	35	4.5	17.2	18.7	41.5	1.4	44.7	53 x 2.5	49.7	2.7	55.4	5537	5971
115-23-0665	50	4.5	18.3	19.8	43.8	1.4	46.9	56 x 2.5	51.9	2.8	58.8	6193	6866
115-23-0667	70	4.5	19.9	21.4	47.3	1.6	50.8	60 x 2.5	55.8	3.0	63.0	7272	8194
115-23-0669	95	4.5	21.6	23.1	51.0	1.6	54.5	64 x 2.5	59.5	3.1	66.9	8449	9371
115-23-0672	120	4.5	23.5	25.0	55.0	1.6	58.5	69 x 2.5	63.6	3.3	71.4	9668	10950
115-23-0675	150	4.5	25.1	26.6	58.5	1.6	62.1	58 x 3.15	68.4	3.4	76.4	11551	12688
115-23-0678	185	4.5	26.4	27.9	61.4	1.8	65.3	61 x 3.15	71.6	3.5	79.9	12831	14512
115-23-0684	240	4.5	28.8	30.3	66.4	1.8	70.4	66 x 3.15	76.7	3.7	85.3	15115	16797
115-23-0693	300	4.5	31.2	32.7	71.7	1.8	75.6	71 x 3.15	81.9	3.9	91.0	17810	20116
115-23-0694	400	4.5	34.2	35.7	78.2	1.8	82.1	77 x 3.15	88.4	4.1	97.8	20770	23076
115-23-0695	500	4.5	37.4	38.9	85.1	2.0	89.5	83 x 3.15	95.8	4.4	105.8	25336	27643

Wire Armor Type IEC 60502-2

6, 10, 15, 20, 30 kV Okoguard Shielded Power Cable

- Galvanized Steel Wire Armor

Three Okopact® (Compact Stranded) Copper Conductors/90°C Rating

METRIC MEASUREMENTS

Product Data Section 2: Sheet 48

Catalog Number	Conductor Size - mm ²	Nominal Insulation Thickness - mm	Approx. Dia. over Insulation - mm	Approx. Dia. over Screen - mm	Approx. Core O.D. - mm	Inner Jacket Thickness - mm	Approx. Dia. over Inner Jacket - mm	Approx. Number x Size of Armor Wires - mm	Approx. Dia. over Armor - mm	Outer Jacket Thickness - mm	Approx. O.D. - mm	Approx. Net Wt. - Kg/Km	Approx. Ship Wt. - Kg/Km
20kV Rated Cable													
115-23-0763	35	5.5	19.3	20.8	46.0	1.6	49.5	59 x 2.5	54.5	2.9	61.5	6331	7471
115-23-0765	50	5.5	20.3	21.9	48.3	1.6	51.8	61 x 2.5	56.8	3.0	64.0	6964	7886
115-23-0767	70	5.5	22.0	23.5	51.8	1.6	55.3	65 x 2.5	60.3	3.1	67.7	7979	8901
115-23-0769	95	5.5	23.7	25.2	55.5	1.6	59.0	69 x 2.5	64.0	3.3	71.8	9242	10379
115-23-0772	120	5.5	25.6	27.1	59.5	1.6	63.0	59 x 3.15	69.3	3.5	77.6	10952	12089
115-23-0775	150	5.5	27.2	28.7	63.1	1.6	66.6	63 x 3.15	72.9	3.6	81.3	12400	14081
115-23-0778	185	5.5	28.5	30.0	65.9	1.8	69.8	65 x 3.15	76.1	3.7	84.8	13704	15386
115-23-0784	240	5.5	30.8	32.4	71.0	1.8	74.9	70 x 3.15	81.2	3.9	90.3	16033	17715
115-23-0793	300	5.5	33.2	34.8	76.2	1.8	80.1	75 x 3.15	86.4	4.1	95.8	18793	21100
115-23-0794	400	5.5	36.2	37.8	82.7	2.0	87.0	81 x 3.15	93.3	4.3	103.2	21908	24214
115-23-0795	500	5.5	39.5	41.0	89.6	2.0	94.0	87 x 3.15	100.3	4.5	110.5	26394	29236
30 kV Rated Cable													
115-23-0865	50	8.0	25.4	26.9	59.3	1.6	62.8	59 x 3.15	69.1	3.4	77.1	9291	10428
115-23-0867	70	8.0	27.1	28.6	62.8	1.8	66.7	63 x 3.15	73.0	3.6	81.4	10528	12789
115-23-0869	95	8.0	28.8	30.3	65.9	1.8	69.8	65 x 3.15	76.1	3.7	84.8	11397	13658
115-23-0872	120	8.0	30.6	32.2	70.5	1.8	74.4	70 x 3.15	80.7	3.9	89.8	13218	14899
115-23-0875	150	8.0	32.3	33.8	74.0	1.8	78.0	73 x 3.15	84.3	4.0	93.5	14730	17036
115-23-0878	185	8.0	33.6	35.1	76.9	1.8	80.8	75 x 3.15	87.1	4.1	96.5	16003	18310
115-23-0884	240	8.0	35.9	37.4	81.9	2.0	86.3	80 x 3.15	92.6	4.3	102.5	18558	20865
115-23-0893	300	8.0	38.3	39.9	87.1	2.0	91.5	85 x 3.15	97.8	4.5	108.1	21433	24275
115-23-0894	400	8.0	41.3	42.8	93.6	2.0	98.0	91 x 3.15	104.3	4.7	115.0	24561	30215
115-23-0895	500	8.0	44.6	46.1	100.6	2.0	105.0	97 x 3.15	111.3	4.9	122.4	29208	34862

Visit Okonite's web site, www.okonite.com for the most up to date dimensions.

Ampacities

Refer to IEC 60502-2 Annex B for continuous current ratings of 1/C and 3/C cables.

Alternate Constructions

Contact Applications Engineering for design options.

District Offices, Manufacturing Plants & Service Centers

Manufacturing Plants



Orangeburg, SC - Compound Facility



Orangeburg, SC - Manufacturing Plant



Richmond, KY - Manufacturing Plant



Santa Maria, CA - Manufacturing Plant



Ashton, RI - Manufacturing Plant



Paterson, NJ - Manufacturing Plant



Opening 2015 Cumberland, RI - Manufacturing Plant

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