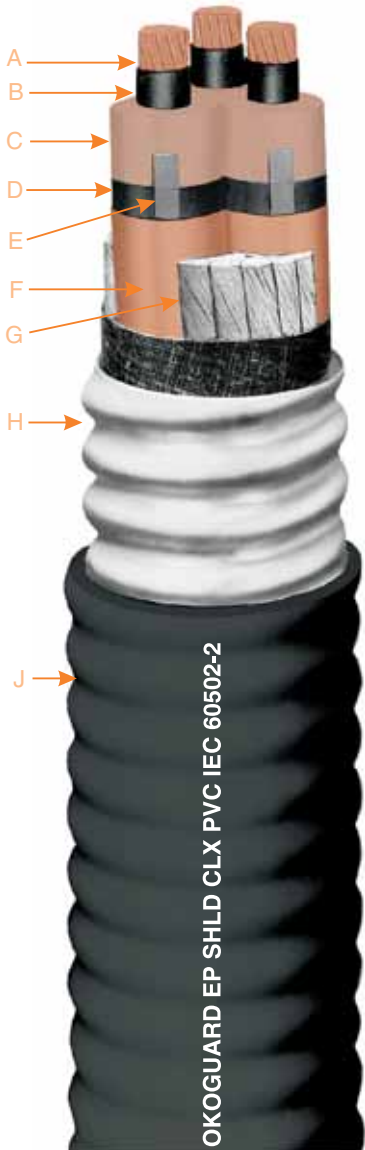




C-L-X[®] Aluminum Sheath* Type IEC 60502-2 6, 10, 15, 20, 30 kV Okoguard[®] Shielded Power Cable Three Okopact[®] (Compact Stranded) Copper Conductors/90°C Rating



- 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

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'
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

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'
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.