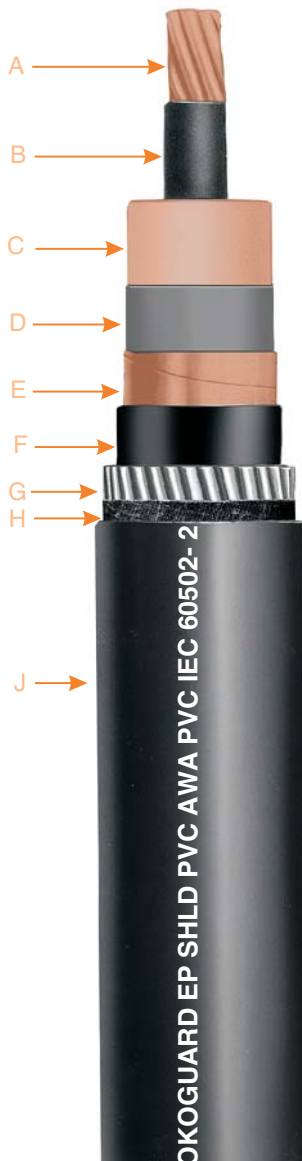




## Wire Armor Type IEC 60502-2

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

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

### US MEASUREMENTS

# Product Data Section 2: Sheet 47

Catalog Number	Conductor Size - mm <sup>2</sup>	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'
<b>6 kV Rated Cable</b>												
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
<b>10 kV Rated Cable</b>												
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
<b>15 kV Rated Cable</b>												
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<sup>®</sup> (Compact Stranded) Copper Conductor/90°C Rating

### US MEASUREMENTS

# Product Data Section 2: Sheet 47

Catalog Number	Conductor Size - mm <sup>2</sup>	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'
<b>20 kV Rated Cable</b>												
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

<b>30 kV Rated Cable</b>												
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

Visit Okonite's web site, [www.okonite.com](http://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 <sup>2</sup>	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
<b>6 kV Rated Cable</b>												
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
<b>10 kV Rated Cable</b>												
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
<b>15 kV Rated Cable</b>												
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 <sup>2</sup>	Nominal Insulation Thickness - mm	Approx. Dia. over Insulation - mm	Approx. Dia. over Screen - mm	Inner Jacket Thickness - mm	Approx. Dia. over 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
<b>20kV Rated Cable</b>												
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
<b>30 kV Rated Cable</b>												
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

Visit Okonite's web site, [www.okonite.com](http://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.