Philsheath® Armored Instrumentation, Shielded, PVC/NYLON/PVC/ARMOR/PVC 600V, UL Type MC

Product construction

Conductor:
- 16 AWG and 18 AWG bare copper
- Class B stranding per ASTM B3 and B8

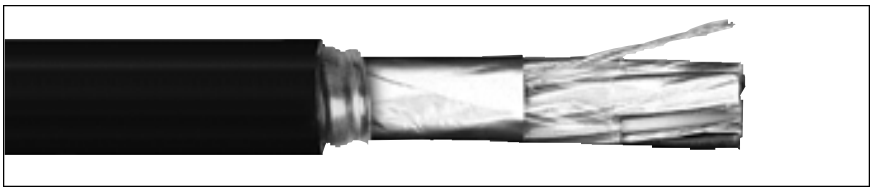
Insulation:
- Flame-retardant, colored Polyvinyl Chloride (PVC) with clear Polymide (Nylon)
- Color code: per ICEA Method 1; pairs - black and white. One conductor in each pair is printed alpha-numerically for easy identification

Shield:
- Individual pairs are 100% shielded with FlexFoil® aluminum/polyester in contact with stranded tinned copper drain wire
- Overall shield is FlexFoil® aluminum/polyester in contact with stranded tinned copper drain wire

Inner Jacket:
- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

Armor:
- Philsheath® impervious, seam welded, continuous, corrugated, aluminum alloy

Overall Jacket:
- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)



Print:
- GENERAL CABLE® BICC® BRAND PHILSHEATH® (#OF PAIRS) SIZE AWG TYPE TFN CDRS SHIELDED 600V (UL) TYPE MC SUN RES FOR CT USE MONTH-YEAR SEQUENTIAL PRINT

Options:
- Other constructions available upon request

Applications:
- Where environmental factors require cable characteristics including flame-retardance and resistance to chemicals and exposure to sunlight
- Typical applications include audio, intercom, control, energy management and alarm circuits
- In all raceways or direct burial
- In wet or dry locations
- Permitted for use in Class I Division 2 industrial hazardous locations per NEC article 501-4(b)

Features:
- Rated at 90˚C wet or dry
- Impervious barrier to moisture
- Excellent resistance to crush
- Oil and sunlight resistant
- Flame retardant
- Good mechanical properties
- Cost effective alternative to installations in conduit
- Meets cold bend test at -25˚C

Compliances:
- IEEE 383 (70,000 BTU/hr)
- UL Subject 13 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr)CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)
- ICEA S-82-552/WC-55
- Meets EPA 40 CFR Part 261 leachable lead content per TCLP method
- OSHA acceptable

Packaging:
- Material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lags, pulling eyes, paralleling, and plexing

16 AWG THRU 18 AWG CONDUCTORS, UL TYPE MC 600V

CATALOG NUMBER	COND. SIZE		NO. OF PAIRS	MIN. AVG INSULATION THICKNESS		NOMINAL DIAMETER (OVER)						COPPER WEIGHT		NET WEIGHT	
						INNER JACKET		AL. ARMOR		CABLE					
	AWG	mm²		INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	lbs/ 1000ft	kg/ km	lbs/ 1000ft	kg/ km
10898.521600	16	1.3	12	0.020	0.51	0.94	23.9	1.26	31.9	1.37	34.7	244	363	873	1299
10898.531600	16	1.3	24	0.020	0.51	1.26	32.0	1.69	43.0	1.80	45.8	456	679	1491	2219
10898.541600	16	1.3	36	0.020	0.51	1.48	37.6	1.97	50.2	2.08	52.9	682	1015	2577	3835
10898.541800	18	0.8	12	0.020	0.51	0.85	21.6	1.14	29.0	1.25	31.8	156	232	690	1027
10898.551800	18	0.8	24	0.020	0.51	1.13	28.7	1.50	38.1	1.61	40.9	309	460	1154	1718
10898.561800	18	0.8	36	0.020	0.51	1.55	39.4	2.06	52.4	2.19	55.7	462	688	2087	3106

General Cable
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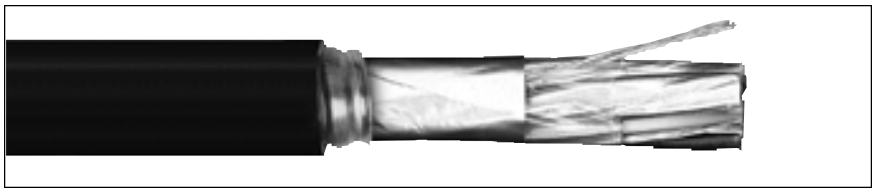
Philsheath® PVIC™ Armored Instrumentation, Shielded, PVC/PVC/ARMOR/PVC 300V, UL Type PLTC/ITC



Product Construction

Conductor:
- 16 AWG thru 20 AWG bare annealed copper
- Class B stranding per ASTM B3 and B8

Insulation:
- Flame-retardant Polyvinyl Chloride (PVC)
- Color code: per ICEA Method 1; pairs - black and white, Triads - black, white, and red. One conductor in each pair or triad is printed alpha-numerically for easy identification

Shield:
- Individual pairs are 100% shielded with FlexFoil® aluminum/polyester in contact with stranded tinned copper drain wire
- Overall shield is FlexFoil® aluminum/polyester in contact with stranded tinned copper drain wire

Inner Jacket:
- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

Armor:
- Philsheath® impervious, seam welded, continuous, corrugated, aluminum alloy

Overall Jacket:
- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

Print:
- GENERAL CABLE® BICC® BRAND PHILSHEATH® (#OF PAIRS OR TRIADS) SIZE AWG SHIELDED (UL) TYPE PLTC SUN RES MONTH-YEAR SEQUENTIAL PRINT

Options:
- Other constructions available upon request

Applications:
- Where environmental factors require cable characteristics including flame-retardance and resistance to chemicals and exposureto sunlight
- Typical applications include audio, intercom, control, energy management and alarm circuits
- May be installed above grade in ducts or conduit
- In accordance with UL Subject 13 as Power Limited Circuit Cable

Applications (cont):
- Permitted for use in Class 3 circuits in accordance with NEC Article 725 and in Class 1 Division II industrial hazardous locations per NEC Article 501-4 (b) for Type PLTC/ITC CABLE

Features:
- Rated at 105°C
- Impervious barrier to moisture
- Excellent resistance to crush
- Oil and sunlight-resistant
- Flame retardant
- Good mechanical properties
- Cost effective alternative to installations in conduit
- Meets cold bend test at -25°C

Compliances:
- UL Type PLTC/ITC, NEC Article 725
- IEEE 383 (70,000 BTU/hr)
- UL Subject 13 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr)CSA FT4
- ICEA S-82-552/WC-55
- ICEA T-29-520 (210,000 BTU/hr)
- ICEA T-30-520 (70,000 BTU/hr)
- Meets EPA 40 CFR Part 261 leachable lead content per TCLP method
- OSHA acceptable

Packaging:
- Material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lags, pulling eyes, paralleling, and plexing

16 AWG THRU 20 AWG CONDUCTORS, UL TYPE PLTC/ITC, 300V

CATALOG NUMBER	COND. SIZE		NO. OF PAIRS	NO. OF TRIADS	MIN. AVG INSULATION THICKNESS		NOMINAL DIAMETER (OVER)						COPPER WEIGHT		NET WEIGHT	
							INNER JACKET		AL. ARMOR		CABLE					
	AWG	mm²			INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	lbs/ 1000ft	kg/ km	lbs/ 1000ft	kg/ km
10898.041600	16	1.3	12	00	0.015	0.38	1.09	27.7	1.45	36.8	1.62	41.1	244	363	1200	1790
10898.121600	16	1.3	24	00	0.015	0.38	1.26	32.0	1.68	42.7	1.84	46.7	456	679	1630	2425
10898.131600	16	1.3	36	00	0.015	0.38	1.48	37.6	1.92	48.8	2.10	53.3	682	1015	2230	3320
10898.241600	16	1.3	00	24	0.015	0.38	0.96	24.4	1.27	32.3	1.43	36.3	321	478	915	1360
10898.251600	16	1.3	00	36	0.015	0.38	1.12	28.4	1.49	37.8	1.65	41.9	480	714	1230	1830
10898.101800	18	0.8	24	00	0.015	0.38	0.96	24.4	1.27	32.3	1.43	36.3	390	580	915	1360
10898.041800	18	0.8	36	00	0.015	0.38	1.12	28.4	1.49	37.8	1.65	41.9	462	688	1230	1830
10898.131800	18	0.8	00	8	0.015	0.38	1.09	27.7	1.45	36.8	1.61	40.9	145	216	1210	1800
10898.141800	18	0.8	00	12	0.015	0.38	0.80	20.3	1.09	27.7	1.21	30.7	218	324	690	1030
10898.151800	18	0.8	00	24	0.015	0.38	1.09	27.7	1.45	36.8	1.61	40.9	434	646	1210	1800
10898.161800	18	0.8	00	36	0.015	0.38	1.30	33.0	1.71	43.4	1.88	47.8	649	966	1700	2530
10898.052000	20	0.5	24	00	0.012	0.31	0.78	19.8	1.05	26.7	1.18	30.0	176	262	645	960
10898.062000	20	0.5	36	00	0.012	0.31	0.93	23.6	1.24	31.5	1.40	35.6	263	391	920	1370
10898.112000	20	0.5	00	24	0.012	0.31	0.90	22.7	1.21	30.7	1.36	34.5	321	478	880	1310
10898.122000	20	0.5	00	36	0.012	0.31	1.05	26.7	1.41	35.8	1.57	39.9	480	714	1190	1770

Philsheath® Armored Control, XLPE/ARMOR/PVC

600V, UL Type MC (XHHW-2), w/o a Separate Ground

Product Construction

Conductor:
- 10 AWG thru 14 AWG Class B compressed stranded bare copper as per ASTM B8

Insulation:
- Cross-Linked Polyethylene (XLPE)
- Color code: per ICEA Method 1, E2 for 14 to 10 AWG (conductors which are color or number coded may also be surface ink printed with: "GENERAL CABLE XHHW-2" and the conductor size.)

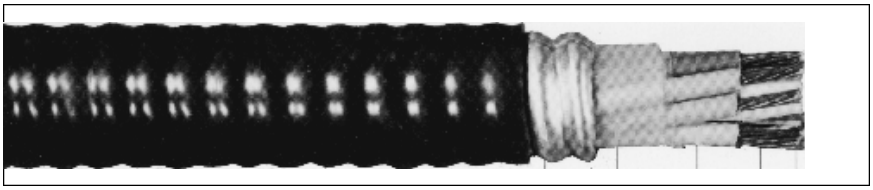
Ground:
- Cables are supplied without a separate copper ground wire. Cables without separate ground are listed Type MC only

Armor:
- Philsheath® impervious, corrugated, continuous seam welded aluminum alloy

Jacket:
- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

Print:
- GENERAL CABLE® BICC® BRAND PHILSHEATH® (#OF CONDUCTORS) SIZE AWG 600V XHHW-2 CDRS (UL) TYPE MC SUN RES FOR CT USE DIR BUR -FT4 (-40C) MONTH-YEAR SEQUENTIAL PRINT

Options:
- Other constructions available upon request



Applications:
- UL listed and intended for use as Type MC cables
- In accordance with NEC
- Installed in both exposed and concealed work, wet and dry locations
- Directly buried or embedded in concrete
- Installed on metal racks, troughs, in cable trays or secured to supports spaced not more than six feet apart
- In accordance to NEC articles 501, 502, and 503 cables are permitted for use in Classes I and II, Division 2, and Class III, Divisions 1 and 2, hazardous locations
- Cables with grounding conductor are approved for use in Classes I and II, Division I hazardous locations

Features:
- Rated at 90˚C wet or dry
- Resistant to most oils and chemicals
- Stable electrical properties over a broad temperature range
- Meets cold impact test at -40˚C
- Meets cold bend test at -25˚C

Compliances:
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)
- ICEA T-30-520 (70,000 BTU/hr)
- CSA Low Acid Gas
- UL 1569
- UL 44
- ICEA S 73-532/WC-57 (Formerly ICEA S-66-524/NEMA WC7)
- Applicable portions of IEC 502, 540 and 332-3
- Meets EPA 40 CFR part 261 for leachable lead content per TCLP method
- OSHA acceptable

Packaging:
- Material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lags, pulling eyes, paralleling, and plexing

10 AWG THRU 14 AWG CONDUCTORS, UL TYPE MC (XHHW-2), 600V W/O A SEPARATE GROUND

CATALOG NUMBER	NO. OF COND.	COND. SIZE		MIN. AVG INSULATION THICKNESS		NOMINAL DIAMETER (OVER)				MIN. AVG JACKET THICKNESS		COPPER WEIGHT		NET WEIGHT	
						ARMOR		CABLE							
		AWG	mm²	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	lbs/ 1000ft	kg/ km	lbs/ 1000ft	kg/ km
10898.111000	12	10	5.26	0.030	0.76	1.02	25.9	1.13	28.7	0.050	1.27	390	580	710	1050
10898.201200	15	12	3.31	0.030	0.76	1.00	25.4	1.11	28.2	0.050	1.27	306	455	640	950
10898.331000	15	10	5.26	0.030	0.76	1.15	29.2	1.26	32.0	0.050	1.27	486	723	910	1350
10898.091200	19	12	3.31	0.030	0.76	1.06	26.9	1.17	29.7	0.050	1.27	388	577	770	1150
10898.341000	19	10	5.26	0.030	0.76	1.21	30.7	1.33	33.8	0.050	1.27	617	918	1100	1600
10898.351400	24	14	2.08	0.030	0.76	1.11	28.2	1.22	31.0	0.050	1.27	308	458	740	1100
10898.351200	24	12	3.31	0.030	0.76	1.26	32.0	1.37	34.8	0.050	1.27	491	731	970	1450
10898.351000	24	10	5.26	0.030	0.76	1.45	36.8	1.57	39.9	0.050	1.27	780	1161	1350	2000
10898.361400	30	14	2.08	0.030	0.76	1.18	30.0	1.30	33.0	0.050	1.27	385	573	870	1300
10898.361200	30	12	3.31	0.030	0.76	1.35	34.3	1.46	37.1	0.050	1.27	613	912	1200	1750
10898.361000	30	10	5.26	0.030	0.76	1.55	39.4	1.69	42.9	0.050	1.27	975	1451	1650	2450
10898.111400	37	14	2.08	0.030	0.76	1.28	32.5	1.40	35.6	0.050	1.27	476	708	1000	1500
10898.211200	37	12	3.31	0.030	0.76	1.47	37.3	1.58	40.1	0.060	1.52	756	1125	1400	2050
10898.371000	37	10	5.26	0.030	0.76	1.67	42.4	1.81	46.0	0.060	1.52	1201	1787	2000	3000

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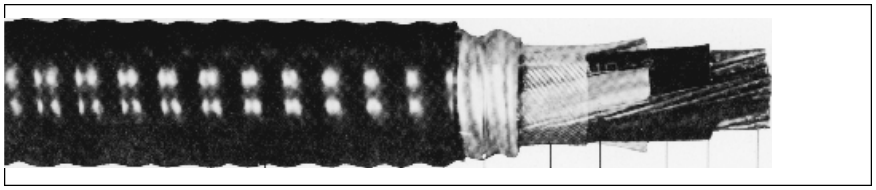
Philsheath® Armored Control, XLPE/ARMOR/PVC

600V, UL Type MC-HL (XHHW-2), w/ a Separate Ground



Product Construction

Conductor:
- 10 AWG thru 14 AWG Class B compressed stranded bare copper as per ASTM B8

Insulation:
- Cross-Linked Polyethylene (XLPE)
- Color code: per ICEA Method 1, E2 for #14 to #10 AWG (conductors which are color or number coded may also be surface ink printed with: "GENERAL CABLE XHHW-2" and the conductor size.)

Ground:
- Cables are supplied with a separate copper ground wire and are sized in accordance with UL 1569

Armor:
- Philsheath® impervious, corrugated, continuous seam welded aluminum alloy

Jacket:
- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

Print:
- GENERAL CABLE® BICC® BRAND PHILSHEATH (#OF CONDUCTORS) SIZE (AWG or kcmil) 600V XHHW-2 CDRS 1/C (GRD SIZE AWG) (UL) TYPE MC-HL SUN RES FOR CT USE DIR BUR -FT4 (-40C) MONTH-YEAR SEQUENTIALPRINT

Option:
- Other constructions available upon request

Applications:
- UL listed and intended for use as Type MC cables
- In accordance with NEC
- Installed in both exposed and concealed work
- Wet and dry locations
- Directly buried or embedded in concrete
- Installed on metal racks, troughs, in cable trays or secured to supports spaced not more than six feet apart
- In accordance to NEC articles 501, 502, and 503 cables are permitted for use in Classes I and II, Division 2, and Class III, Divisions 1 and 2, hazardous locations
- Cables with grounding conductor are approved for use in Classes I and II, Division I hazardous locations

Features:
- Rated at 90˚C wet or dry
- UL Listed Type MC-HL for use in accordance with NEC
- Resistant to most oils and chemicals
- Stable electrical properties over a broad temperature range
- Meets cold impact test at -40˚C
- Meets cold bend test at -25˚C

Compliances:
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)
- ICEA T-30-520 (70,000 BTU/hr)
- CSA Low Acid Gas
- UL 1569
- UL 2225
- UL 44
- ICEA S 73-532/WC-57 (Formerly ICEA S-66-524/NEMA WC7)
- Applicable portions of IEC 502, 540 and 332-3
- Armor grounding capabilities equivalent to NEC 1996 Table 250-95
- Meets EPA 40 CFR part 261 for leachable lead content per TCLP method
- OSHA acceptable

Packaging:
- Material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lags, pulling eyes, paralleling, and plexing

10 AWG THRU 14 AWG CONDUCTORS, UL TYPE MC-HL (XHHW-2), 600V WITH A SEPARATE GROUND

CATALOG NUMBER	NO. OF COND.	COND. SIZE		GROUND WIRE SIZE		MIN. AVG INSULATION THICKNESS		NOMINAL DIAMETER (OVER)				MIN. AVG JACKET THICKNESS		COPPER WEIGHT		NET WEIGHT	
								ARMOR		CABLE							
		AWG	mm²	AWG	mm²	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	lbs/ 1000ft	kg/ km	lbs/ 1000ft	kg/ km
10898.441000	12	10	5.26	10	5.26	0.030	0.76	1.02	25.9	1.13	28.7	0.050	1.27	423	630	770	1140
10898.451200	15	12	3.31	12	3.31	0.030	0.76	1.00	25.4	1.11	28.2	0.050	1.27	327	487	680	1010
10898.451000	15	10	5.26	10	5.26	0.030	0.76	1.15	29.2	1.26	32.0	0.050	1.27	519	772	970	1440
10898.461200	19	12	3.31	12	3.31	0.030	0.76	1.06	26.9	1.17	29.7	0.050	1.27	412	613	810	1200
10898.461000	19	10	5.26	10	5.26	0.030	0.76	1.21	30.7	1.33	33.8	0.050	1.27	650	967	1160	1730
10898.471400	24	14	2.08	14	2.08	0.030	0.76	1.11	28.2	1.22	31.0	0.050	1.27	321	478	750	1120
10898.471200	24	12	3.31	12	3.31	0.030	0.76	1.26	32.0	1.37	34.8	0.050	1.27	513	763	1010	1500
10898.471000	24	10	5.26	10	5.26	0.030	0.76	1.45	36.8	1.57	39.9	0.050	1.27	813	1210	1410	2100
10898.481400	30	14	2.08	14	2.08	0.030	0.76	1.18	30.0	1.30	33.0	0.050	1.27	398	592	880	1310
10898.481200	30	12	3.31	12	3.31	0.030	0.76	1.35	34.3	1.46	37.1	0.050	1.27	635	945	1240	1840
10898.481000	30	10	5.26	10	5.26	0.030	0.76	1.55	39.4	1.69	42.9	0.050	1.27	1008	1500	1710	2540
10898.491400	37	14	2.08	14	2.08	0.030	0.76	1.28	32.5	1.40	35.6	0.050	1.27	492	732	1010	1500
10898.491200	37	12	3.31	12	3.31	0.030	0.76	1.47	37.3	1.58	40.1	0.060	1.52	781	1162	1440	2140
10898.491000	37	10	5.26	10	5.26	0.030	0.76	1.67	42.4	1.81	46.0	0.060	1.52	1234	1836	2060	3070

Phone:(800) 338-0901
www.generalcable.com

Philsheath® Armored Power, XLPE/ARMOR/PVC

600V, UL Type MC-HL (XHHW-2), w/ a Separate Ground

Product Construction

Conductor:
- 4 AWG thru 1000 kcmil Class B compressed stranded copper as per ASTM B8

Insulation:
- Cross-Linked Polyethylene (XLPE)
- Color code: per ICEA method 4 for #8AWG and larger (conductors which are color or number coded may also be surface ink printed with: "GENERAL CABLE XHHW-2" and the conductor size.)

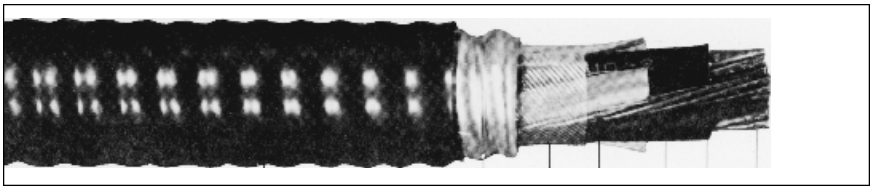
Ground:
- Cables are supplied with a separate copper ground wire and are sized in accordance with UL 1569

Armor:
- Philsheath® impervious, corrugated, continuous seam welded aluminum alloy

Jacket:
- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

Print:
- GENERAL CABLE® BICC® BRAND PHILSHEATH® (#OF CONDUCTORS) SIZE (AWG OR KCMIL) 600V XHHW-2 CDRS 1/C (GRD SIZE AWG) (UL) TYPE MC-HL SUN RES FOR CT USE DIR BUR - FT4 (-40C) MONTH-YEAR SEQUENTIAL PRINT

Option:
- Other constructions available upon request



Applications:
- UL Listed and intended for use as Type MC-HL cables
- In accordance with NEC
- Installed in both exposed and concealed work
- Wet and dry locations
- Directly buried or embedded in concrete
- Installed on metal racks, troughs, in cable trays or secured to supports spaced not more than six feet apart
- In accordance to NEC articles 501, 502, and 503 cables are permitted for use in Classes I and II, Division 2, and Class III, Divisions 1 and 2, hazardous locations
- Cables with grounding conductor are approved for use in Classes I and II, Division I hazardous locations

Features:
- Rated at 90°C wet or dry
- UL Listed Type MC-HL for use in accordance with NEC
- Resistant to most oils and chemicals
- Stable electrical properties over a broad temperature range
- Meets cold impact test at -40°C
- Meets cold bend test at -25°C

Compliances:
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)
- ICEA T-30-520 (70,000 BTU/hr)
- CSA Low Acid Gas
- UL 1569
- UL 2225
- UL 44
- ICEA S 95-658/NEMA WC70 (Formerly ICEA S-66-524/ NEMA WC7)
- Applicable portions of IEC 502, 540 and 332-3
- Armor grounding capabilities equivalent to NEC 1996 Table 250-95
- Meets EPA 40 CFR part 261 for leachable lead content per TCLP method
- OSHA acceptable

Packaging:
- Material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lags, pulling eyes, paralleling, and plexing

4 AWG THRU 1000 KCMIL CONDUCTORS, UL TYPE MC-HL (XHHW-2), 600V WITH A SEPARATE GROUND

CATALOG NUMBER	NO. OF COND.	COND. SIZE		GROUND WIRE SIZE		MIN. AVG INSULATION THICKNESS		NOMINAL DIAMETER (OVER)				MIN. AVG JACKET THICKNESS		COPPER WEIGHT		NET WEIGHT	
								ARMOR		CABLE							
		AWG/ KCMIL	mm²	AWG	mm²	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	lbs/ 1000ft	kg/ km	lbs/ 1000ft	kg/ km
10898.040200	3	2	33.6	6	8.36	0.045	1.14	1.12	28.5	1.24	31.5	0.050	1.27	703	1046	1110	1650
10898.030100	3	1	42.4	6	13.3	0.055	1.40	1.28	32.8	1.40	45.7	0.050	1.27	877	1305	1320	1970
10898.025100	3	1/0	53.5	6	13.3	0.055	1.40	1.41	35.8	1.52	38.7	0.050	1.27	1082	1610	1600	2400
10898.015200	3	2/0	67.4	6	13.3	0.055	1.40	1.53	38.9	1.67	42.4	0.050	1.27	1327	1975	1950	2900
10898.035300	3	3/0	85.0	4	21.1	0.055	1.40	1.66	42.2	1.80	45.7	0.060	1.52	1719	2558	2400	3600
10898.055400	3	4/0	107	4	21.1	0.055	1.40	1.79	45.6	1.93	49.0	0.060	1.52	2110	3140	2900	4350
10898.036000	3	250	127	4	21.1	0.065	1.65	1.97	50.0	2.11	53.6	0.060	1.52	2498	3718	3450	5100
10898.026200	3	350	177	3	26.7	0.065	1.65	2.25	57.1	2.39	60.7	0.060	1.52	3440	5119	4550	6800
10898.026500	3	500	253	2	33.6	0.065	1.65	2.62	66.6	2.80	71.0	0.075	1.91	4885	7270	6400	9500
10898.057000	3	750	380	1	42.4	0.080	2.03	3.17	80.5	3.38	85.9	0.085	2.16	7408	11025	9400	13950
10898.037500	3	1000	507	1/0	53.5	0.080	2.03	3.52	89.4	3.72	94.5	0.085	2.16	9648	14358	12050	17900
10898.060400	4	4	21.2	8	8.4	0.045	1.14	1.07	27.2	1.18	30.0	0.050	1.27	572	851	960	1430
10898.050200	4	2	33.6	6	8.4	0.045	1.14	1.25	31.8	1.36	34.5	0.050	1.27	910	1354	1350	2000
10898.040100	4	1	42.4	6	13.3	0.055	1.40	1.44	36.6	1.56	39.6	0.050	1.27	1141	1698	1700	2550
10898.045100	4	1/0	53.5	6	13.3	0.055	1.40	1.56	39.6	1.70	43.2	0.060	1.52	1415	2106	2050	3050
10898.065200	4	2/0	67.4	6	13.3	0.055	1.40	1.69	42.9	1.83	46.5	0.060	1.52	1762	2622	2500	3700
10898.045300	4	3/0	85.0	4	21.1	0.055	1.40	1.83	46.5	1.96	49.8	0.060	1.52	2248	3345	3050	4550
10898.025400	4	4/0	107	4	21.1	0.055	1.40	2.00	50.8	2.14	54.4	0.060	1.52	2800	4167	3750	5550
10898.066000	4	250	127	4	21.1	0.065	1.65	2.19	55.7	2.33	59.3	0.060	1.52	3249	4835	4350	6500
10898.046200	4	350	177	3	26.7	0.065	1.65	2.51	63.7	2.68	68.1	0.075	1.91	4579	6814	5950	8850
10898.066500	4	500	253	2	33.6	0.065	1.65	2.92	74.2	3.10	78.8	0.075	1.91	6419	9553	8150	12150
10898.047000	4	750	380	1	42.4	0.080	2.03	3.48	88.4	3.68	93.5	0.085	2.16	9584	9798	12000	17900

General Cable
Phone:(800) 338-0901
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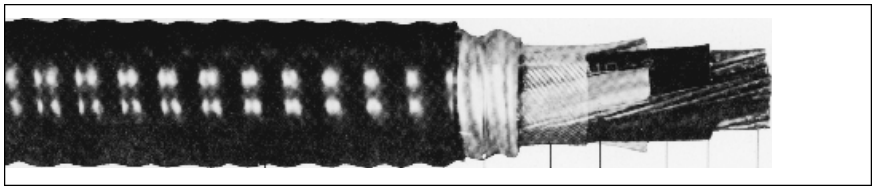
UL LISTED BICC BRAND

Philsheath® Armored Power & Control, Composite, XLPE/ARMOR/PVC 600V, UL Type MC-HL (XHHW-2), w/ a Separate Ground



Product Construction

Conductor:
- 6 AWG thru 2 AWG Class B compressed stranded bare copper as per ASTM B8

Insulation:
- Cross-Linked Polyethylene (XLPE)
- Color code: per ICEA method 4 for #8AWG and larger (conductors which are color or number coded may also be surface ink printed with: "GENERAL CABLE XHHW-2" and the conductor size.)

Ground:
- Cables are supplied with a copper ground wire and are sized in accordance with UL 1569

Armor:
- Philsheath® impervious, corrugated, continuous seam welded aluminum alloy

Jacket:
- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

Print:
- GENERAL CABLE® BICC® BRAND PHILSHEATH® (# AND SIZE OF POWER CONDUCTORS)+ (# AND SIZE OF CONTROL CONDUCTORS) 600V XHHW-2 CDRS 1/C (GROUND SIZE AWG) AWG GRD (UL) TYPE MC-HL SUN RES FOR CT USE DIR BUR -FT4 (-40C) MONTH-YEAR SEQUENTIAL PRINT

Option:
- Other constructions available upon request

Applications:
- UL listed and intended for use as Type MC-HL cables
- In accordance with NEC
- Installed in both exposed and concealed work
- Wet and dry locations
- Directly buried or embedded in concrete
- Installed on metal racks, troughs, in cable trays or secured to supports spaced not more than six feet apart
- In accordance to NEC articles 501, 502, and 503 cables are permitted for use in Classes I and II, Division 2, and Class III, Divisions 1 and 2, hazardous locations
- Cables with grounding conductor are approved for use in Classes I and II, Division I hazardous locations

Features:
- Rated at 90˚C wet or dry
- UL Listed Type MC-HL for use in accordance with NEC
- Resistant to most oils and chemicals
- Stable electrical properties over a broad temperature range
- Meets cold impact test at -40˚C
- Meets cold bend test at -25˚C

Compliances:
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)
- ICEA T-30-520 (70,000 BTU/hr)
- CSA Low Acid Gas
- UL 1569
- UL 2225
- UL 44
- ICEA S 95-658/NEMA WC70 (Formerly ICEA S-66-524/ NEMA WC7)
- Applicable portions of IEC 502, 540 and 332-3
- Armor grounding capabilities equivalent to NEC 1996 Table 250-95
- Meets EPA 40 CFR part 261 for leachable lead content per TCLP method
- OSHA acceptable

Packaging:
- Material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lags, pulling eyes, paralleling, and plexing

6 AWG THRU 2 AWG CONDUCTORS, COMPOSITE, UL TYPE MC-HL (XHHW-2), 600V WITH A SEPARATE GROUND

CATALOG NUMBER	NO. OF POWER COND. (AWG) SIZE	NO. OF CONTROL COND. (AWG) SIZE	GROUND COND. (AWG) SIZE	MIN. AVG INSULATION THICKNESS		NOMINAL DIAMETER (OVER)				MIN. AVG JACKET THICKNESS		COPPER WEIGHT		NET WEIGHT	
						ARMOR		CABLE							
				INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	lbs/ 1000ft	kg/ km	lbs/ 1000ft	kg/ km
10898.060600	3-#6	4-#12	8	0.045	1.14	0.98	24.8	1.09	27.6	0.050	1.27	381	567	690	1025
10898.300400	3-#4	4-#12	8	0.045	1.14	1.10	27.8	1.21	30.7	0.050	1.27	528	786	890	1325
10898.300200	3-#2	4-#12	6	0.045	1.14	1.24	31.6	1.36	34.5	0.050	1.27	792	1179	1225	1820
10898.300400	3-#4	3-#14	8	0.045	1.14	1.12	28.6	1.24	31.5	0.050	1.27	485	722	865	1290

Phone:(800) 338-0901
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Philsheath® Armored Power, Non-Shielded, EPR/ARMOR/PVC

5kV, UL Type MV-90 OR MC-HL, Three Conductor, 100% & 133% Ins Levels, 90 Mils

Product Construction

Conductor:
- 6 AWG thru 1000 kcmil annealed bare copper, Anapact™ compact B strand

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

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

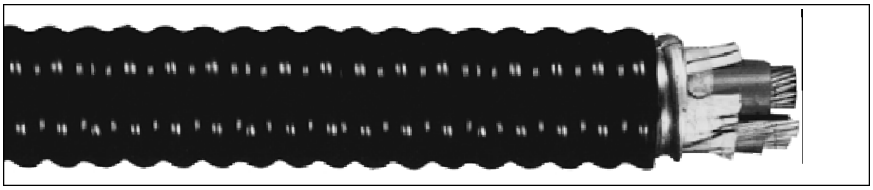
Ground:
- Bare copper per UL 1072

Armor:
- Philsheath® impervious, corrugated, continuous seam welded aluminum alloy

Jacket:
- Flame-retardant, moisture- and sunlight-resistant, Polyvinyl Chloride (PVC) - yellow

Print:
- GENERAL CABLE® BICC® BRAND PHILSHEATH® 3/C SIZE (KCMIL OR AWG) COMPACT CU + SIZE AWG GRD 90MILS EPR 5KV NONSHIELDED TYPE MV-90 OR MC-HL SUN RES FOR CT USE DIR BUR (UL)-FT4- (-40˚C) "LIGHTNING BOLT SYMBOL MONTH-YEAR, SEQUENTIAL PRINT

Options:
- Other options available upon request



Applications:
- For use in circuits with a rating not to exceed 5kv phase to phase
- Installed in both exposed and concealed work in accordance with NEC
- Wet and dry locations in accordance with NEC
- Directly buried or embedded in concrete in accordance with NEC
- Installed on metal racks, troughs, in cable trays or secured to supports spaced not more than six feet apart
- In accordance to NEC articles 501, 502, and 503 cables are permitted for use in Classes I, II and III, Divisions 1 and 2 hazardous locations
- Designed specifically for use on feeders and branch circuits in industrial power distribution systems

Features:
- Rated at 90˚C wet or dry
- Resistant to most oils and chemicals
- Stable electrical properties over a broad temperature range
- Meets cold impact test at -40˚C
- Meets cold bend test at -25˚C

Compliances:
- UL Listed Type MV-90 OR MC-HL for use in accordance with NEC
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)
- ICEA T-30-520 (70,000 BTU/hr)
- CSA Low Acid Gas
- UL 1072
- UL 2225
- AEIC CS8 (Formerly AEIC CS6)
- ICEA S 96-659/NEMA WC71 (Formerly S 68-516/ NEMA WC8)
- Applicable portions of IEC 502, 540, 332-3
- Meets EPA 40 CFR part 261 for leachable lead content per TCLP
- OSHA acceptable

Packaging:
- Material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lags, pulling eyes, paralleling, and plexing

6 AWG THRU 1000 KCMIL CONDUCTORS, THREE CONDUCTOR, NON-SHIELDED, UL TYPE MV-90 OR MC-HL, 5KV, 100% & 133% INS LEVELS, 90 MILS (2.29 mm)

CATALOG NUMBER	COND. SIZE		GROUND WIRE SIZE		NOMINAL DIAMETER (OVER)						MIN. AVG JACKET THICKNESS		COPPER WEIGHT		NET WEIGHT	
					INSULATION		ARMOR		CABLE							
	AWG/ KCMIL	mm²	AWG	mm²	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	lbs/ 1000ft	kg/ km	lbs/ 1000ft	kg/ km
18499.040600	6	13.3	6	13.3	0.39	9.9	1.14	29.0	1.26	32.0	0.050	1.27	328	488	760	1150
18499.050400	4	21.2	6	13.3	0.43	11.0	1.27	32.3	1.38	35.1	0.050	1.27	472	702	970	1450
18499.050200	2	33.6	6	13.3	0.49	12.5	1.43	36.3	1.55	39.4	0.050	1.27	701	1043	1300	1950
18499.020100	1	42.4	4	21.2	0.53	13.5	1.52	38.6	1.66	42.2	0.060	1.52	910	1354	1600	2400
18499.045100	1/0	53.5	4	21.2	0.56	14.3	1.63	41.4	1.76	44.7	0.060	1.52	1115	1659	1850	2900
18499.055200	2/0	67.4	4	21.2	0.60	15.3	1.72	43.6	1.85	47.1	0.060	1.52	1372	2042	2200	3300
18499.025300	3/0	85.0	3	26.7	0.65	16.5	1.84	46.7	1.97	50.0	0.060	1.52	1728	2572	2700	3900
18499.035400	4/0	107	3	26.7	0.70	17.9	1.97	50.0	2.11	53.6	0.060	1.52	2143	3189	3200	4700
18499.026000	250	127	3	26.7	0.76	19.4	2.13	54.1	2.27	57.7	0.060	1.52	2494	3712	3700	5400
18499.066200	350	177	2	33.6	0.86	21.8	2.39	60.7	2.56	65.0	0.075	1.91	3479	5177	4900	7200
18499.026500	500	253	1	42.4	0.98	24.8	2.75	69.8	2.92	74.2	0.075	1.91	4920	7322	6600	9800
18499.097000	750	380	1/0	53.5	1.17	29.7	3.28	83.3	3.48	88.4	0.085	2.16	7318	10891	9550	14200
18499.027500	1000	507	1/0	53.5	1.33	33.8	3.62	91.9	3.82	97.0	0.085	2.16	9647	14357	12150	18100

General Cable
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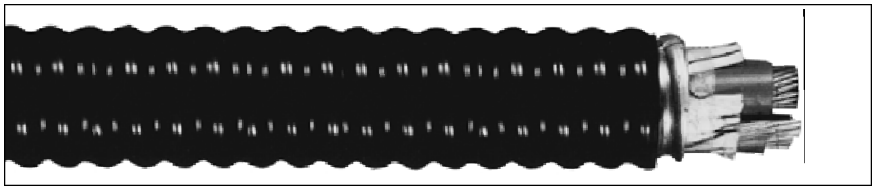
Philsheath® Armored Power, Non-Shielded, EPR/ARMOR/PVC

5kV, UL Type MV-90 OR MC-HL, Three Conductor 133%, Ins Level, 115 Mils (to AEIC)



Product Construction

Conductor:
- 6 AWG thru 1000 kcmil annealed bare copper, Anapact™ compact B strand

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

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

Ground:
- Bare annealed copper per UL 1072

Armor:
- Philsheath® impervious, corrugated, continuous seam welded aluminum alloy

Jacket:
- Flame-retardant, moisture- and sunlight-resistant, Polyvinyl Chloride (PVC) - yellow

Print:
- GENERAL CABLE® BICC® BRAND PHILSHEATH® 3/C SIZE (KCMIL OR AWG) COMPACT CU + SIZE AWG GRD 115MILS EPR 5KV NONSHIELDED TYPE MV-90 OR MC-HL SUN RES FOR CT USE DIR BUR (UL)-FT4- (-40˚C) "LIGHTNING BOLT SYMBOL MONTH-YEAR, SEQUENTIAL PRINT

Options:
- Other constructions available upon request

Applications:
- For use in circuits with a rating not to exceed 5kv phase to phase
- Installed in both exposed and concealed work in accordance with NEC
- Wet and dry locations in accordance with NEC
- Directly buried or embedded in concrete in accordance with NEC
- Installed on metal racks, troughs, in cable trays or secured to supports spaced not more than six feet apart
- In accordance to NEC articles 501, 502, and 503 cables are permitted for use in Classes I, II and III, Divisions 1 and 2 hazardous locations
- Designed specifically for use on feeders and branch circuits in industrial power distribution systems

Features:
- Rated at 90˚C wet or dry
- Resistant to most oils and chemicals
- Stable electrical properties over a broad temperature range
- Meets cold impact test at -40˚C
- Meets cold bend test at -25˚C

Compliances:
- UL Listed Type MV-90 OR MC-HL for use in accordance with NEC
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)
- ICEA T-30-520 (70,000 BTU/hr)
- CSA Low Acid Gas
- UL 1072
- UL 2225
- AEIC CS8 (formerly AEIC CS6).
- ICEA S 96-659/NEMA WC-71 (formerly S 68-516/ NEMA WC8)
- Applicable portions of IEC 502, 540, 332-3
- Meets EPA 40 CFR part 261 for leachable lead content per TCLP
- OSHA acceptable

Packaging:
- Material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lags, pulling eyes, paralleling, and plexing

6 AWG THRU 1000 KCMIL CONDUCTORS, THREE CONDUCTOR, NON-SHIELDED, UL TYPE MV-90 OR MC-HL, 5KV, 133% INS LEVEL, 115 MILS (2.92 mm) (TO AEIC)

CATALOG NUMBER	COND. SIZE		GROUND WIRE SIZE		NOMINAL DIAMETER (OVER)						MIN. AVG JACKET THICKNESS		COPPER WEIGHT		NET WEIGHT	
					INSULATION		ARMOR		CABLE							
	AWG/ KCMIL	mm²	AWG	mm²	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	lbs/ 1000ft	kg/ km	lbs/ 1000ft	kg/ km
18499.010600	6	13.3	6	13.3	0.44	11.2	1.28	32.5	1.40	35.6	0.050	1.27	328	488	860	1300
18499.010400	4	21.2	6	13.3	0.48	12.3	1.42	36.1	1.53	38.9	0.050	1.27	472	702	1100	1650
18499.010200	2	33.6	6	13.3	0.54	13.8	1.57	39.9	1.71	43.4	0.060	1.52	701	1043	1450	2200
18499.010100	1	42.4	4	21.2	0.57	14.5	1.66	42.1	1.79	45.6	0.060	1.52	910	1354	1750	2600
18499.015100	1/0	53.5	4	21.2	0.61	15.5	1.74	44.2	1.88	47.7	0.060	1.52	1115	1659	2000	3000
18499.015200	2/0	67.4	4	21.2	0.65	16.6	1.84	46.7	1.97	50.0	0.060	1.52	1372	2042	2400	3500
18499.015300	3/0	85.0	3	26.7	0.70	17.7	1.97	50.1	2.11	53.7	0.060	1.52	1728	2572	2800	4200
18499.015400	4/0	107	3	26.7	0.75	19.2	2.10	53.3	2.24	56.8	0.060	1.52	2135	3177	3300	5000
18499.016000	250	127	3	26.7	0.81	20.1	2.26	57.4	2.43	61.7	0.075	1.91	2494	3712	3900	5800
18499.016200	350	177	2	33.6	0.90	22.9	2.52	64.0	2.70	68.6	0.075	1.91	3469	5163	5000	7500
18499.016500	500	253	1	42.4	1.02	25.9	2.89	73.3	3.07	77.9	0.075	1.91	4920	7322	6800	10000
18499.017000	750	380	1/0	53.5	1.22	31.0	3.38	85.9	3.58	90.9	0.085	2.16	7318	10891	9750	14500
18499.017500	1000	507	1/0	53.5	1.37	34.8	3.97	100.8	4.17	105.9	0.085	2.16	9647	14357	13200	19700

BICC BRAND

UL LISTED

General Cable

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www.generalcable.com

Philsheath® Armored Power, Shielded, EPR/ARMOR/PVC

5kV, UL Type MV-105 OR MC-HL, Three Conductor, 100% & 133% Ins Level, 90 Mils

Product Construction

Conductors:
- 6 AWG thru 1000 kcmil bare copper, Anapact™ compact Class B strand

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

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

Extruded Insulation Shield (EIS):
- Thermoset semi-conducting polymeric layer free stripping from insulation

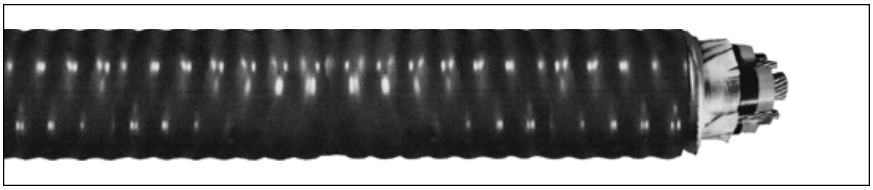
Shield:
- 5 mil uncoated copper tape with a 25% overlap

Ground:
- Bare annealed copper per UL 1072

Armor:
- Philsheath® impervious, corrugated, continuous seam welded aluminum alloy

Jacket:
- Flame-retardant, moisture- and sunlight-resistant, Polyvinyl Chloride (PVC) - yellow

Print:
- GENERAL CABLE® BICC® BRAND 3/C SIZE (KCMIL OR AWG) COMPACT CU + SIZE AWG GRD 90 MILS EPR 5KV 100% & 133% INSUL LEVEL (UL) TYPE MV-105 OR MC-HL SUN RES FOR CT USE DIR BUR-FT4- (-40˚C) "LIGHTNING BOLT SYMBOL MONTH-YEAR, SEQUENTIAL PRINT



Options:
- Other constructions available upon request

Applications:
- For use in circuits with a rating not to exceed their rated phase to phase voltage
- Installed in both exposed and concealed work in accordance with NEC
- Wet and dry locations in accordance with NEC
- Directly buried or embedded in concrete in accordance with NEC
- Installed on metal racks, troughs, in cable trays or secured to supports spaced not more than six feet apart in accordance with NEC
- In accordance to NEC articles 501, 502, and 503 cables are permitted for use in Classes I, II and III, Divisions 1 and 2, hazardous locations
- Designed specifically for use on feeders and branch circuits in industrial power distribution systems

Features:
- Rated at 105˚C wet or dry
- Resistant to most oils and chemicals
- Stable electrical properties over a broad temperature range
- Cost effective alternative to installation in conduit
- Meets cold impact test at -40˚C
- Meets cold bend test at -25˚C

Compliances:
- UL Listed Type MV-105 or MC-HL for use in accordance with NEC
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)
- ICEA T-30-520 (70,000 BTU/hr)
- CSA Low Acid Gas
- UL 1072
- UL 2225
- ICEA S 93-639/NEMA WC74 (Formerly ICEA S 68-516/ NEMA WC8)
- AEIC CS8 (Formerly AEIC CS6)
- Applicable portions of IEC 502, 540, 332-3
- Meets EPA 40 CFR part 261 for leachable lead content per TCLP method
- OSHA acceptable

Packaging:
- Material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lags, pulling eyes, paralleling, and plexing

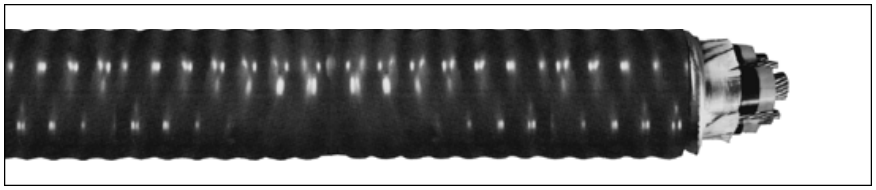
6 AWG THRU 1000 KCMIL CONDUCTORS, THREE CONDUCTOR, SHIELDED, UL TYPE MV-105 OR MC-HL, 5KV, 100% & 133% INS LEVEL, 90 MILS (2.29 mm)

CATALOG NUMBER	COND. SIZE		GROUND WIRE SIZE		NOMINAL DIAMETER (OVER)								MIN. AVG JACKET THICKNESS		COPPER WEIGHT		NET WEIGHT	
					INSULATION		INSULATION SHIELD		ARMOR		CABLE							
	AWG/ KCMIL	mm²	AWG	mm²	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	lbs/ 1000ft	kg/ km	lbs/ 1000ft	kg/ km
18499.100600	6	13.3	6	13.3	0.39	9.9	0.45	11.4	1.37	34.8	1.48	37.6	0.050	1.27	455	677	1050	1570
18499.100400	4	21.2	6	13.3	0.43	11.0	0.50	12.7	1.50	38.1	1.61	40.9	0.050	1.27	609	906	1290	1920
18499.100200	2	33.6	6	13.3	0.49	12.5	0.55	14.0	1.65	41.9	1.78	45.2	0.060	1.52	852	1268	1680	2500
18499.100100	1	42.4	4	21.2	0.53	13.5	0.59	15.0	1.72	43.7	1.86	47.2	0.060	1.52	1073	1597	1950	2900
18499.105100	1/0	53.5	4	21.2	0.56	14.3	0.62	15.7	1.81	46.0	1.94	49.3	0.060	1.52	1284	1911	2250	3340
18499.105200	2/0	67.4	4	21.2	0.60	15.3	0.66	16.8	1.92	48.8	2.05	52.1	0.060	1.52	1554	2313	2600	3860
18499.105300	3/0	85.0	3	26.7	0.65	16.5	0.71	18.0	2.04	51.8	2.18	55.4	0.060	1.52	1921	2859	3070	4580
18499.105400	4/0	107	3	26.7	0.70	17.9	0.76	19.3	2.18	55.4	2.32	58.9	0.060	1.52	2341	3484	3590	5350
18499.106000	250	127	3	26.7	0.76	19.4	0.82	20.8	2.34	59.4	2.51	63.8	0.075	1.91	2712	4036	4180	6210
18499.106200	350	177	2	33.6	0.86	21.8	0.92	23.4	2.63	66.8	2.80	71.1	0.075	1.91	3708	5518	5430	8080
18499.106500	500	253	1	42.4	0.98	24.8	1.04	26.4	2.95	74.9	3.13	79.5	0.075	1.91	5191	7725	7160	10650
18499.107000	750	380	1/0	53.5	1.17	29.7	1.26	32.0	3.50	88.9	3.70	94.0	0.085	2.16	7641	11371	10200	15200
18499.107500	1000	507	1/0	53.5	1.33	33.8	1.42	36.1	3.86	98.0	4.06	103.1	0.085	2.16	10009	14895	13000	19400

General Cable
Phone:(800) 338-0901
www.generalcable.com

Philsheath® Armored Power, Shielded, EPR/ARMOR/PVC

5kV/8kV, UL Type MV-105 OR MC-HL, Three Conductor, 133%/100% Ins Level, 115 Mils (to AEIC)



Product Construction

Conductors:
- 6 AWG thru 1000 kcmil annealed bare copper, Anapact™ compact Class B strand

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

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

Extruded Insulation Shield (EIS):
- Thermoset semi-conducting polymeric layer free stripping from insulation

Shield:
- 5 mil uncoated copper tape with a 25% overlap

Ground:
- Bare copper per UL 1072

Armor:
- Philsheath® impervious, corrugated, continuous seam welded aluminum alloy

Jacket:
- Flame-retardant, moisture- and sunlight-resistant, Polyvinyl Chloride (PVC) - yellow

Print:
- GENERAL CABLE® BICC® BRAND PHILSHEATH® 3/C SIZE (KCMIL OR AWG) COMPACT CU + (GRD SIZE AWG) 115 MILS EPR VOLTAGE 5KV/8KV 133%/100% INSUL LEVEL (UL) TYPE MV-105 OR MC-HL SUN RES FOR CT USE DIR BUR-FT4- (-40˚C) "LIGHTNING BOLT SYMBOL MONTH-YEAR, SEQUENTIAL PRINT

Options:
- Other constructions available upon request

Applications:
- For use in circuits with a rating not to exceed their rated phase to phase voltage
- Installed in both exposed and concealed work in accordance with NEC
- Wet and dry locations in accordance with NEC
- Directly buried or embedded in concrete in accordance with NEC
- Installed on metal racks, troughs, in cable trays or secured to supports spaced not more than six feet apart in accordance with NEC
- In accordance to NEC articles 501, 502, and 503 cables are permitted for use in Classes I, II and III, Divisions 1 and 2, hazardous locations
- Designed specifically for use on feeders and branch circuits in industrial power distribution systems

Features:
- Rated at 105˚C wet or dry
- Resistant to most oils and chemicals
- Stable electrical properties over a broad temperature range
- Cost effective alternative to installation in conduit
- Meets cold impact test at -40˚C
- Meets cold bend test at -25˚C

Compliances:
- UL Listed Type MV-105 or MC-HL for use in accordance with NEC
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)
- ICEA T-30-520 (70,000 BTU/hr)
- CSA Low Acid Gas
- UL 1072
- UL 2225
- ICEA S-93-639/NEMA WC74 (Formerly ICEA S-68-516/ NEMA WC8)
- AEIC CS8 (Formerly AEIC CS6)
- Applicable portions of IEC 502, 540, 332-3
- Meets EPA 40 CFR part 261 for leachable lead content per TCLP method
- OSHA acceptable

Packaging:
- Material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lags, pulling eyes, paralleling, and plexing

6 AWG THRU 1000 KCMIL CONDUCTORS, THREE CONDUCTOR, SHIELDED, UL TYPE MV-105 OR MC-HL, 5KV/8KV, 133%/100% INS LEVEL, 115 MILS (2.92 mm) (TO AEIC)

CATALOG NUMBER	COND. SIZE		GROUND WIRE SIZE		NOMINAL DIAMETER (OVER)								MIN. AVG JACKET THICKNESS		COPPER WEIGHT		NET WEIGHT	
					INSULATION		INSULATION SHIELD		ARMOR		CABLE							
	AWG/ KCMIL	mm²	AWG	mm²	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	lbs/ 1000ft	kg/ km	lbs/ 1000ft	kg/ km
18499.110600	6	13.3	6	13.3	0.44	11.2	0.50	12.7	1.52	38.6	1.65	41.9	0.060	1.52	463	689	1210	1800
18499.110400	4	21.2	6	13.3	0.48	12.3	0.55	14.0	1.64	41.6	1.77	45.0	0.060	1.52	620	923	1480	2200
18499.060200	2	33.6	6	13.3	0.54	13.8	0.60	15.2	1.76	44.7	1.90	48.3	0.060	1.52	864	1286	1820	2700
18499.110100	1	42.4	4	21.2	0.57	14.5	0.64	16.2	1.84	46.7	1.98	50.3	0.060	1.52	1085	1615	2120	3160
18499.115100	1/0	53.5	4	21.2	0.61	15.5	0.67	17.0	1.94	49.3	2.08	52.8	0.060	1.52	1296	1929	2410	3580
18499.115200	2/0	67.4	4	21.2	0.65	16.6	0.71	18.0	2.05	52.1	2.19	55.6	0.060	1.52	1565	2329	2780	4140
18499.115300	3/0	85.0	3	26.7	0.70	17.7	0.76	19.3	2.18	55.4	2.32	58.9	0.060	1.52	1936	2881	3240	4820
18499.115400	4/0	107	3	26.7	0.75	19.2	0.81	20.6	2.32	58.9	2.49	63.2	0.075	1.91	2359	3511	3840	5720
18499.116000	250	127	3	26.7	0.81	20.1	0.87	22.1	2.48	61.0	2.65	67.3	0.075	1.91	2730	4063	4360	6490
18499.116200	350	177	2	33.6	0.90	22.9	0.97	24.6	2.76	70.1	2.94	74.7	0.075	1.91	3726	5545	5630	8390
18499.116500	500	253	1	42.4	1.02	25.9	1.11	28.2	3.13	79.5	3.32	84.3	0.085	2.16	5212	7756	7590	11300
18499.117000	750	380	1/0	53.5	1.22	31.0	1.31	33.3	3.61	91.7	3.81	96.8	0.085	2.16	7662	11403	10510	15650
18499.117500	1000	507	1/0	53.5	1.38	35.1	1.47	37.3	4.21	106.9	4.41	112.0	0.085	2.16	10033	14931	13800	20500

BICC BRAND

UL LISTED

General Cable

Phone:(800) 338-0901
www.generalcable.com

Philsheath® Armored Power, Shielded, EPR/ARMOR/PVC

15kV, UL Type MV-105 or MC-HL, Three Conductor, 100% Ins Level, 175 Mils

Product Construction

Conductors:
- 2 AWG thru 750 kcmil bare copper, Anapact™ compact Class B strand

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

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

Extruded Insulation Shield (EIS):
- Thermoset semi-conducting polymeric layer free stripping from insulation

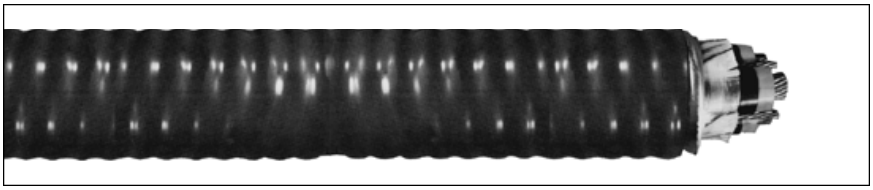
Shield:
- 5 mil uncoated copper tape with a 25%overlap

Ground:
- Bare annealed copper per UL 1072

Armor:
- Philsheath® impervious, corrugated, continuous seam welded aluminum alloy

Jacket:
- Flame-retardant, moisture- and sunlight-resistant, Polyvinyl Chloride (PVC) - red

Print:
- GENERAL CABLE® BICC® BRAND PHILSHEATH® 3/C SIZE (KCMIL OR AWG) COMPACT CU + (GRD SIZE AWG) 175 MILS EPR 15KV 100% INSUL LEVEL (UL) TYPE MV-105 OR MC-HL SUN RES FOR CT USE DIR BUR-FT4- (-40˚C) "LIGHTNING BOLT SYMBOL MONTH-YEAR, SEQUENTIAL PRINT



Options:
- Other constructions available upon request

Applications:
- For use in circuits with a rating not to exceed their rated phase to phase voltage
- Installed in both exposed and concealed work in accordance with NEC
- Wet and dry locations in accordance with NEC
- Directly buried or embedded in concrete in accordance with NEC
- Installed on metal racks, troughs, in cable trays or secured to supports spaced not more than six feet apart in accordance with NEC
- In accordance to NEC articles 501, 502, and 503 cables are permitted for use in Classes I, II and III, Divisions 1 and 2, hazardous locations
- Designed specifically for use on feeders and branch circuits in industrial power distribution systems

Features:
- Rated at 105˚C wet or dry
- Resistant to most oils and chemicals
- Stable electrical properties over a broad temperature range
- Cost effective alternative to installation in conduit
- Meets cold impact test at -40 ˚C
- Meets cold bend test at -25˚C

Compliances:
- UL Listed Type MV-105 or MC-HL for use in accordance with NEC
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)
- ICEA T-30-520 (70,000 BTU/hr)
- CSA Low Acid Gas
- UL 1072
- UL 2225
- ICEA S 93-639/NEMA WC74 (Formerly ICEA S-68-516/ NEMA WC8)
- AEIC CS8 (Formerly AEIC CS6)
- Applicable portions of IEC 502, 540, 332-3
- Meets EPA 40 CFR part 261 for leachable lead content per TCLP method
- OSHA acceptable

Packaging:
- Material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lags, pulling eyes, paralleling, and plexing

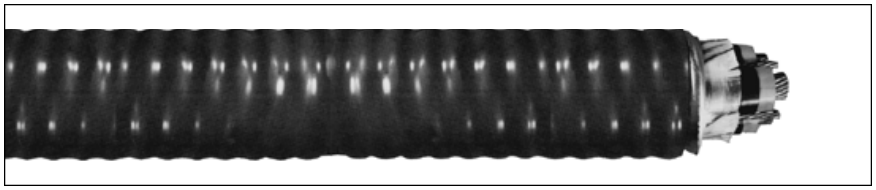
2 AWG THRU 750 KCMIL CONDUCTORS, THREE CONDUCTOR, SHIELDED, UL TYPE MV-105 OR MC-HL, 15KV, 100% INS LEVEL, 175 MILS (4.45 mm)

CATALOG NUMBER	COND. SIZE		GROUND WIRE SIZE		NOMINAL DIAMETER (OVER)								MIN. AVG JACKET THICKNESS		COPPER WEIGHT		NET WEIGHT	
					INSULATION		INSULATION SHIELD		ARMOR		CABLE							
	AWG/ KCMIL	mm²	AWG	mm²	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	lbs/ 1000ft	kg/ km	lbs/ 1000ft	kg/ km
18499.140200	2	33.6	6	13.3	0.66	16.8	0.72	18.3	2.08	52.8	2.22	56.4	0.060	1.52	882	1313	2260	3360
18499.140100	1	42.4	4	21.2	0.69	17.5	0.76	19.3	2.17	55.0	2.31	58.7	0.060	1.52	1103	1641	2540	3770
18499.145100	1/0	53.5	4	21.2	0.73	18.6	0.79	20.1	2.28	57.9	2.45	62.3	0.075	1.91	1314	1955	2900	4330
18499.145200	2/0	67.4	4	21.2	0.77	19.6	0.83	21.1	2.37	60.2	2.55	64.8	0.075	1.91	1583	2355	3280	4880
18499.145300	3/0	85.0	3	26.7	0.82	20.8	0.88	22.4	2.52	64.0	2.69	68.4	0.075	1.91	1945	2895	3800	5650
18499.145400	4/0	107	3	26.7	0.88	22.2	0.93	23.6	2.67	67.8	2.85	72.4	0.075	1.91	2371	3529	4360	6500
18499.146000	250	127	3	26.7	0.93	23.7	1.00	25.4	2.85	72.4	3.03	77.0	0.075	1.91	2745	4085	4930	7350
18499.146200	350	177	2	33.6	1.03	26.2	1.12	28.4	3.13	79.5	3.33	84.6	0.085	2.16	3741	5567	6400	9500
18499.146500	500	253	1	42.4	1.15	29.1	1.23	31.3	3.38	85.9	3.58	90.9	0.085	2.16	5221	7770	8150	12100
18499.147000	750	380	1/0	53.5	1.34	34.0	1.43	36.3	3.89	98.8	4.09	103.9	0.085	2.16	7671	11416	11100	16500

General Cable
Phone:(800) 338-0901
www.generalcable.com

Philsheath® Armored Power, Shielded, EPR/ARMOR/PVC

15kV, UL Type MV-105 or MC-HL, Three Conductor, 133% Ins Level, 220 Mils



Product Construction

Conductors:
- 2 AWG thru 750kcmil bare copper, Anapact™ compact Class B strand

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

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

Extruded Insulation Shield (EIS):
- Thermoset semi-conducting polymeric layer free stripping from insulation

Shield:
- 5 mil uncoated copper tape with a 25% overlap

Ground:
- Bare copper per UL 1072

Armor:
- Philsheath® impervious, corrugated, continuous seam welded aluminum alloy

Jacket:
- Flame-retardant, moisture- and sunlight-resistant, Polyvinyl Chloride (PVC) - red

Print:
- GENERAL CABLE® BICC® BRAND PHILSHEATH® 3/C SIZE (KCMIL OR AWG) COMPACT CU + (GRD SIZE AWG) 220 MILS EPR 15KV 133% INSUL LEVEL (UL) TYPE MV-105 OR MC-HL SUN RES FOR CT USE DIR BUR-FT4- (-40˚C) "LIGHTNING BOLT SYMBOL MONTH-YEAR, SEQUENTIAL PRINT

Options:
- Other constructions available upon request

Applications:
- For use in circuits with a rating not to exceed their rated phase to phase voltage
- Installed in both exposed and concealed work in accordance with NEC
- Wet and dry locations in accordance with NEC
- Directly buried or embedded in concrete in accordance with NEC
- Installed on metal racks, troughs, in cable trays or secured to supports spaced not more than six feet apart in accordance with NEC
- In accordance to NEC articles 501, 502, and 503 cables are permitted for use in Classes I, II and III, Divisions 1 and 2, hazardouslocations
- Designed specifically for use on feeders and branch circuits in industrial power distribution systems

Features:
- Rated at 105˚C wet or dry
- Resistant to most oils and chemicals
- Stable electrical properties over a broad temperature range
- Cost effective alternative to installation in conduit
- Meets cold impact test at -40˚C
- Meets cold bend test at -25˚C

Compliances:
- UL Listed Type MV-105 or MC-HL for use in accordance with NEC
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)
- ICEA T-30-520 (70,000 BTU/hr)
- CSA Low Acid Gas
- UL 1072
- UL 2225
- ICEA S 93-639/NEMA WC74 (Formerly ICEA S-68-516/ NEMA WC8)
- AEIC CS8 (Formerly AEIC CS6)
- Applicable portions of IEC 502, 540, 332-3
- Meets EPA 40 CFR part 261 for leachable lead content per TCLP method
- OSHA acceptable

Packaging:
- Material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lags, pulling eyes, paralleling, and plexing

2 AWG THRU 750 KCMIL CONDUCTORS, THREE CONDUCTOR, SHIELDED, UL TYPE MV-105 OR MC-HL, 15KV, 133% INS, LEVEL 220 MILS (5.59 mm)

CATALOG NUMBER	COND. SIZE		GROUND WIRE SIZE		NOMINAL DIAMETER (OVER)								MIN. AVG JACKET THICKNESS		COPPER WEIGHT		NET WEIGHT	
					INSULATION		INSULATION SHIELD		ARMOR		CABLE							
	AWG/ KCMIL	mm²	AWG	mm²	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	lbs/ 1000ft	kg/ km	lbs/ 1000ft	kg/ km
18499.150200	2	33.6	6	13.3	0.75	19.1	0.82	20.8	2.33	59.2	2.51	63.8	0.075	1.91	903	1344	2640	3930
18499.150100	1	42.4	4	21.2	0.78	19.8	0.85	21.6	2.41	61.2	2.58	65.5	0.075	1.91	1124	1628	2920	4350
18499.155100	1/0	53.5	4	21.2	0.82	20.9	0.89	22.6	2.51	63.8	2.70	68.7	0.075	1.91	1358	2021	3250	4830
18499.045200	2/0	67.4	4	21.2	0.86	21.9	0.93	23.6	2.65	67.3	2.84	72.1	0.075	1.91	1604	2387	3680	5470
18499.155300	3/0	85.0	3	26.7	0.91	23.1	0.98	24.8	2.77	70.4	2.96	75.2	0.075	1.91	1973	2936	4170	6200
18499.155400	4/0	107	3	26.7	0.97	24.5	1.03	26.2	2.92	74.2	3.12	79.1	0.075	1.91	2422	3604	4750	7050
18499.156000	250	127	3	26.7	1.02	26.0	1.11	28.2	3.11	79.0	3.31	84.1	0.085	2.16	2802	4170	5500	8200
18499.156200	350	177	2	33.6	1.12	28.4	1.21	30.7	3.32	84.3	3.52	89.4	0.085	2.16	3765	5603	6800	10100
18499.076500	500	253	1	42.4	1.24	31.4	1.32	33.6	3.58	90.9	3.78	96.0	0.085	2.16	5292	7876	8600	12800
18499.157000	750	380	1/0	53.5	1.43	36.3	1.52	38.6	4.08	103.6	4.28	108.7	0.085	2.16	7755	11541	11600	17250

BICC® BRAND

UL LISTED

General Cable

Phone:(800) 338-0901
www.generalcable.com

Philsheath® Armored Power, Shielded, EPR/ARMOR/PVC

25kV, UL Type MV-105 or MC-HL, Three Conductor, 100% Ins Level, 260 Mils

Product Construction

Conductors:
- 1 AWG thru 500 kcmil bare copper, Anapact™ compact Class B strand

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

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

Extruded Insulation Shield (EIS):
- Thermoset semi-conducting polymeric layer free stripping from insulation

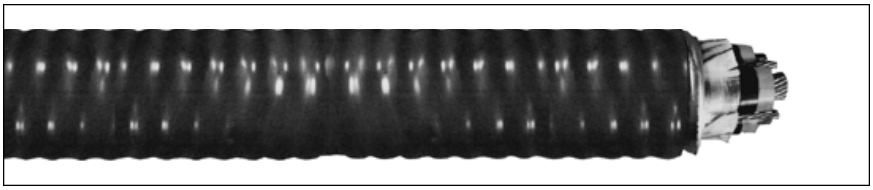
Shield:
- 5 mil uncoated copper tape with a 25% overlap

Ground:
- Bare annealed copper per UL 1072

Armor:
- Philsheath® impervious, corrugated, continuous seam welded aluminum alloy

Jacket:
- Flame-retardant, moisture- and sunlight-resistant, Polyvinyl Chloride (PVC) - black

Print:
- GENERAL CABLE® BICC® BRAND PHILSHEATH® 3/C SIZE (KCMIL OR AWG) COMPACT CU + (GRD SIZE AWG) 260 MILS EPR 25KV 100% INSUL LEVEL (UL) TYPE MV-105 OR MC-HL SUN RES FOR CT USE DIR BUR-FT4- (-40°C) "LIGHTNING BOLT SYMBOL MONTH-YEAR, SEQUENTIAL PRINT



Options:
- Other constructions available upon request

Applications:
- For use in circuits with a rating not to exceed their rated phase to phase voltage
- Installed in both exposed and concealed work in accordance with NEC
- Wet and dry locations in accordance with NEC
- Directly buried or embedded in concrete in accordance with NEC
- Installed on metal racks, troughs, in cable trays or secured to supports spaced not more than six feet apart in accordance with NEC
- In accordance to NEC articles 501, 502, and 503 cables are permitted for use in Classes I, II and III, Divisions 1 and 2, hazardous locations
- Designed specifically for use on feeders and branch circuits in industrial power distribution systems

Features:
- Rated at 105°C wet or dry
- Resistant to most oils and chemicals
- Stable electrical properties over a broad temperature range
- Cost effective alternative to installation in conduit
- Meets cold impact test at -40°C
- Meets cold bend test at -25°C

Compliances:
- UL Listed Type MV-105 or MC-HL for use in accordance with NEC
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)
- ICEA T-30-520 (70,000 BTU/hr)
- CSA Low Acid Gas
- UL 1072
- UL 2225
- ICEA S 93-639/NEMA WC74 (Formerly ICEA S-68-516/ NEMA WC8)
- AEIC CS8 (Formerly AEIC CS6)
- Applicable portions of IEC 502, 540, 332-3
- Meets EPA 40 CFR part 261 for leachable lead content per TCLP method
- OSHA acceptable

Packaging:
- Material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lags, pulling eyes, paralleling, and plexing

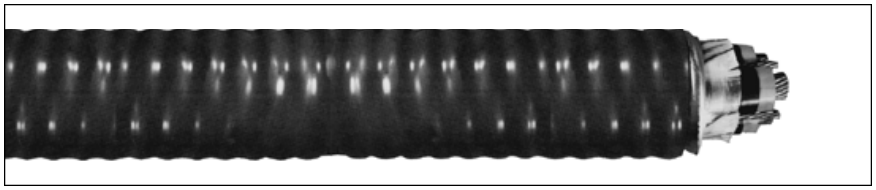
1 AWG THRU 500 KCMIL CONDUCTORS, THREE CONDUCTOR, SHIELDED, UL TYPE MV-105 OR MC-HL, 25KV, 100% INS LEVEL, 260 MILS (6.60 mm)

CATALOG NUMBER	COND. SIZE		GROUND WIRE SIZE		NOMINAL DIAMETER (OVER)								MIN. AVG JACKET THICKNESS		COPPER WEIGHT		NET WEIGHT	
					INSULATION		INSULATION SHIELD		ARMOR		CABLE							
	AWG/ KCMIL	mm²	AWG	mm²	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	lbs/ 1000ft	kg/ km	lbs/ 1000ft	kg/ km
18499.160100	1	42.4	4	21.2	0.86	21.8	0.93	23.6	2.66	67.6	2.83	71.9	0.075	1.91	1145	1704	3300	4900
18499.165100	1/0	53.5	4	21.2	0.90	22.9	0.96	24.4	2.75	69.8	2.93	74.4	0.075	1.91	1357	2485	3620	5400
18499.165200	2/0	67.4	4	21.2	0.94	23.9	1.00	25.4	2.88	73.2	3.06	77.7	0.075	1.91	1622	2414	4020	6000
18499.165300	3/0	85.0	3	26.7	0.99	25.1	1.05	26.7	2.98	75.7	3.16	80.3	0.075	1.91	1994	2967	4520	6720
18499.165400	4/0	107	3	26.7	1.04	26.4	1.13	28.7	3.16	80.3	3.36	85.3	0.085	2.16	2419	3600	5300	7900
18499.166000	250	127	3	26.7	1.10	27.9	1.18	30.0	3.29	83.6	3.49	88.6	0.085	2.16	2790	4152	5850	8700
18499.166200	350	177	2	33.6	1.20	30.5	1.28	32.5	3.50	76.2	3.70	94.0	0.085	2.16	3786	5634	7150	10600
18499.166500	500	253	1	42.4	1.31	33.3	1.40	35.6	3.78	96.0	3.98	101.1	0.085	2.16	5264	7834	9000	13400

General Cable
Phone:(800) 338-0901
www.generalcable.com

Philsheath® Armored Power, Shielded, EPR/ARMORED/PVC

25kV, UL Type MV-105 or MC-HL, Three Conductor, 133% Ins Level, 345 Mils



Product Construction

Conductors:
- 1 AWG thru 500 kcmil bare copper, Anapact™ compact Class B strand

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

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

Extruded Insulation Shield (EIS):
- Thermoset semi-conducting polymeric layer free stripping from insulation

Shield:
- 5 mil uncoated copper tape with a 25% overlap

Ground:
- Bare copper per UL 1072

Armor:
- Philsheath® impervious, corrugated, continuous seam welded aluminum alloy

Jacket:
- Flame-retardant, moisture- and sunlight-resistant, Polyvinyl Chloride (PVC) - black

Print:
- GENERAL CABLE® BICC® BRAND PHILSHEATH® 3/C SIZE (KCMIL OR AWG) COMPACT CU + (GRD SIZE AWG) 345 MILS EPR 25KV 133% INSUL LEVEL (UL) TYPE MV-105 OR MC-HL SUN RES FOR CT USE DIR BUR-FT4- (-40˚C) LIGHTNING BOLT SYMBOL MONTH-YEAR, SEQUENTIAL PRINT

Options:
- Other constructions available upon request

Applications:
- For use in circuits with a rating not to exceed their rated phase to phase voltage
- Installed in both exposed and concealed work in accordance with NEC
- Wet and dry locations in accordance with NEC
- Directly buried or embedded in concrete in accordance with NEC
- Installed on metal racks, troughs, in cable trays or secured to supports spaced not more than six feet apart in accordance with NEC
- In accordance to NEC articles 501, 502, and 503 cables are permitted for use in Classes I, II and III, Divisions 1 and 2, hazardouslocations
- Designed specifically for use on feeders and branch circuits in industrial power distribution systems

Features:
- Rated at 105˚C wet or dry
- Resistant to most oils and chemicals
- Stable electrical properties over a broad temperature range
- Cost effective alternative to installation in conduit
- Meets cold impact test at -40˚C
- Meets cold bend test at -25˚C

Compliances:
- UL Listed Type MV-105 or MC-HL for use in accordance with NEC
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)
- ICEA T-30-520 (70,000 BTU/hr)
- CSA Low Acid Gas
- UL 1072
- UL 2225
- ICEA S 93-639/NEMA WC74 (Formerly ICEA S-68-516/ NEMA WC8)
- AEIC CS8 (Formerly AEIC CS6)
- Applicable portions of IEC 502, 540, 332-3
- Meets EPA 40 CFR part 261 for leachable lead content per TCLP method
- OSHA acceptable

Packaging:
- Material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lags, pulling eyes, paralleling, and plexing

1 AWG THRU 500 KCMIL CONDUCTORS, THREE CONDUCTOR, SHIELDED, UL TYPE MV-105 OR MC-HL, 25KV, 133% INS LEVEL, 345 MILS (8.76 mm)

CATALOG NUMBER	COND. SIZE		GROUND WIRE SIZE		NOMINAL DIAMETER (OVER)								MIN. AVG JACKET THICKNESS		COPPER WEIGHT		NET WEIGHT	
					INSULATION		INSULATION SHIELD		ARMOR		CABLE							
	AWG/ KCMIL	mm²	AWG	mm²	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	lbs/ 1000ft	kg/ km	lbs/ 1000ft	kg/ km
18499.170100	1	42.4	4	21.2	1.03	26.2	1.12	28.4	3.15	80.0	3.35	85.1	0.085	2.16	1178	1753	4230	6300
18499.175100	1/0	53.5	4	21.2	1.07	27.2	1.16	29.5	3.23	82.0	3.43	87.1	0.085	2.16	1670	2485	4560	6800
18499.175200	2/0	67.4	4	21.2	1.11	28.2	1.20	30.5	3.31	84.1	3.51	89.2	0.085	2.16	2008	2988	4950	7400
18499.175300	3/0	85.0	3	26.7	1.16	29.5	1.25	31.8	3.42	86.9	3.62	91.9	0.085	2.16	2042	3039	5500	8200
18499.175400	4/0	107	3	26.7	1.21	30.7	1.30	33.0	3.53	89.7	3.73	94.7	0.085	2.16	2461	3662	6100	9050
18499.176000	250	127	3	26.7	1.27	32.2	1.36	34.5	3.66	93.0	3.86	98.0	0.085	2.16	2832	4215	6700	9950
18499.176200	350	177	2	33.6	1.37	34.8	1.45	36.8	3.89	98.8	4.09	103.9	0.085	2.16	3828	5697	8000	11900
18499.176500	500	253	1	42.4	1.49	37.8	1.57	43.2	4.15	105.4	4.35	110.5	0.085	2.16	5306	7896	9950	14800

General Cable
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www.generalcable.com

Philsheath® Armored Power, Shielded, EPR/ARMOR/PVC

35kV, UL Type MV-105 or MC-HL, Three Conductor, 100% Ins Level, 345 Mils

Product Construction

Conductors:
- 1/0 AWG thru 500 kcmil bare copper, Anapact™ compact Class B strand

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

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

Extruded Insulation Shield (EIS):
- Thermoset semi-conducting polymeric layer free stripping from insulation

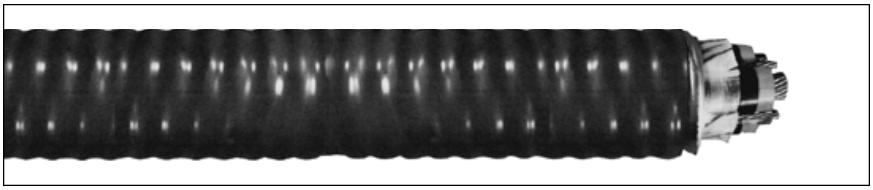
Shield:
- 5 mil uncoated copper tape with a 25% overlap

Ground:
- Bare annealed copper per UL 1072

Armor:
- Philsheath® impervious, corrugated, continuous seam welded aluminum alloy

Jacket:
- Flame-retardant, moisture- and sunlight-resistant, Polyvinyl Chloride (PVC) - black

Print:
- GENERAL CABLE® BICC® BRAND PHILSHEATH® 3/C SIZE (KCMIL OR AWG) COMPACT CU + (GRD SIZE AWG) 345 MILS EPR 35KV 100% INSUL LEVEL (UL) TYPE MV-105 OR MC-HL SUN RES FOR CT USE DIR BUR-FT4- (-40°C) LIGHTNING BOLT SYMBOL MONTH-YEAR, SEQUENTIAL PRINT



Options:
- Other constructions available upon request

Applications:
- For use in circuits with a rating not to exceed their rated phase to phase voltage
- Installed in both exposed and concealed work in accordance with NEC
- Wet and dry locations in accordance with NEC
- Directly buried or embedded in concrete in accordance with NEC
- Installed on metal racks, troughs, in cable trays or secured to supports spaced not more than six feet apart in accordance with NEC
- In accordance to NEC articles 501, 502, and 503 cables are permitted for use in Classes I, II and III, Divisions 1 and 2, hazardous locations
- Designed specifically for use on feeders and branch circuits in industrial power distribution systems

Features:
- Rated at 105°C wet or dry
- Resistant to most oils and chemicals
- Stable electrical properties over a broad temperature range
- Cost effective alternative to installation in conduit
- Meets cold impact test at -40°C
- Meets cold bend test at -25°C

Compliances:
- UL Listed Type MV-105 or MC-HL for use in accordance with NEC
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- CSA Low Acid Gas
- UL 1072
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- ICEA S 93-639/NEMA WC74 (Formerly ICEA S-68-516/ NEMA WC8)
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- Meets EPA 40 CFR part 261 for leachable lead content per TCLP method
- OSHA acceptable

Packaging:
- Material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lags, pulling eyes, paralleling, and plexing

1/0 AWG THRU 500 KCMIL CONDUCTORS, THREE CONDUCTOR, SHIELDED, UL TYPE MV-105 OR MC-HL, 35KV, 100% INS LEVEL, 345 MILS (8.76 mm)

CATALOG NUMBER	COND. SIZE		GROUND WIRE SIZE		NOMINAL DIAMETER (OVER)								MIN. AVG JACKET THICKNESS		COPPER WEIGHT		NET WEIGHT	
					INSULATION		INSULATION SHIELD		ARMOR		CABLE							
	AWG/ KCMIL	mm²	AWG	mm²	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	lbs/ 1000ft	kg/ km	lbs/ 1000ft	kg/ km
18499.195100	1/0	53.5	4	21.2	1.07	27.2	1.16	29.5	3.23	82.0	3.43	87.1	0.085	2.16	1441	2144	4560	6800
18499.195200	2/0	67.4	4	21.2	1.11	28.2	1.20	30.5	3.31	84.1	3.51	89.2	0.085	2.16	1709	2543	4950	7400
18499.195300	3/0	85.0	3	26.7	1.16	29.5	1.25	31.8	3.42	86.9	3.62	91.9	0.085	2.16	2078	3092	5500	8200
18499.195400	4/0	107	3	26.7	1.21	30.7	1.30	33.0	3.53	89.7	3.73	94.7	0.085	2.16	2497	3716	6100	9050
18499.196000	250	127	3	26.7	1.27	32.2	1.36	34.5	3.66	93.0	3.86	98.0	0.085	2.16	2868	4268	6700	9950
18499.196200	350	177	2	33.6	1.37	34.8	1.45	36.8	3.89	98.8	4.09	103.9	0.085	2.16	3868	5756	8000	11900
18499.196500	500	253	1	42.4	1.49	37.8	1.57	39.9	4.15	105.4	4.35	110.5	0.085	2.16	5348	7959	9950	14800

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