USA Wire & Cable

America's Wire Company



USA
WIRE & CABLE, INC.®

America's Wire Company

We're please to provide you with our latest USAWC product catalog featuring many different cable types stocked in our warehouse located in Austin (central) Texas USA.

Since 1990 USA Wire & Cable, Inc has been an industry-leading wire and cable master distributor for specialty copper industrial and utility wire and cable products. As a master distributor we are very proud of our team of account managers, which has more than 250 years of combined industry knowledge and experience.

USA Wire and Cable inventories only American-made wire and cables from top tier manufactures, including Okonite, Advanced Digital Cable, Dekoron, Lake and Service Wire, just to name a few of the 50 different factories to purchase from, this gives us the ability to quote on items that others choose to no bid.

Our inventory is managed by a computerized system that provides instantaneous information such as fast pricing from our sales staff, complete cable description, precise length of the cable reel footage, manufactures product name and the location in our warehouse for quick same day shipment.

Thanks to our superb Cable Management Services offered that helped grow our business throughout the years by offering specification review, lock-in copper pricing if needed without guesswork due to Comex copper fluctuation, pre-purchase of bulk cable on master reels, cut cable into specific circuit schedule lengths to illuminate waste , special metal tags on each reel and staging all material indoors, your cable arrives on the jobsite anywhere in the world ready for installation.

Please look through our catalog and give us a call at 800-880-9473 today for your industrial or utility copper wire and cable needs.

We appreciate your business

"Let's keep America growing"

GO USA

Regards,



Joe Navarro
President

USA Wire and Cable, Inc

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1-800-880-9473
In Stock for Same-Day Immediate Shipment

LOW VOLTAGE SINGLE CONDUCTOR CABLE XHHW-2



- ***XHHW-2***
- ***XLP***
- ***VW-1***
- ***600V***

PRODUCT CONSTRUCTION

Conductor: Single copper conductor, stranded.
Insulation: Resistant to moisture, heat and flame.
Jacket: Chemically cross-linked polyethylene. Temperature rating 90°C in wet and dry locations. All sizes pass the vertical flame test (VW-1). Colors available.

APPLICATIONS

Suitable for general purpose wiring, power distribution and branch circuit wiring where a cable with superior flame retardance is required. Also suitable for for use in low leakage circuits requiring a dielectric constant of 3.5 or less (hospital grade).

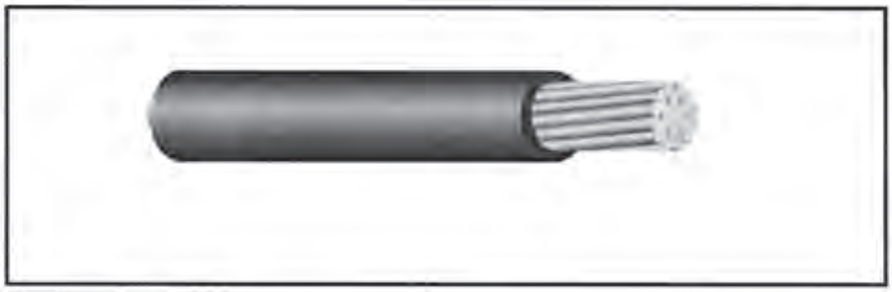
COMPLIANCES

ASTM B3, ASTM B8 (concentric lay stranded), ASTM B787
UL 44, ICEA S-95-658/NEMA WC70
Federal spec A-A-59544, 90°C wet/dry
CT use 1/0 and larger
IEEE 1202/FT4
Gasoline and oil resistant II
C(UL)US RW90:CSA/UL listed
Sunlight resistant (#14-#8: black only)
-40°C rated, suitable for use in 105°C dry system
RoHS compliant

USAWC Part #	Size (AWG or MCM)	Strand (No.)	Insulation Thickness (Mils)	Nominal Diameter Overall (Inches)	Approx. Net Wt. (lbs./1000 ft.)	Ampacity* 90°C Wet/Dry
USA14-01XLPVW1	14	7	30	.133	18	35†
USA12-01XLPVW1	12	7	30	.152	27	40†
USA10-01XLPVW1	10	7	30	.176	40	55†
USA8-01XLPVW1	8	7	45	.236	66	80
USA6-01XLPVW1	6	7	45	.274	99	105
USA4-01XLPVW1	4	7	45	.322	152	140
USA3-01XLPVW1	3	7	45	.350	187	165
USA2-01XLPVW1	2	7	45	.382	233	190
USA1-01XLPVW1	1	19	55	.431	293	220
USA1/0-01XLPVW1	1/0	19	55	.470	364	260
USA2/0-01XLPVW1	2/0	19	55	.514	457	300
USA3/0-01XLPVW1	3/0	19	55	.564	570	350
USA4/0-01XLPVW1	4/0	19	55	.620	710	405
USA250-01XLPVW1	250	37	65	.705	848	455
USA300-01XLPVW1	300	37	65	.759	1007	500
USA350-01XLPVW1	350	37	65	.811	1170	570
USA400-01XLPVW1	400	37	65	.858	1327	615
USA500-01XLPVW1	500	37	65	.943	1648	700
USA600-01XLPVW1	600	61	80	1.053	1991	780
USA750-01XLPVW1	750	61	80	1.158	2469	885

*Per NEC Table 310-17.
†Overcurrent protection shall not exceed 15 amps for 14 AWG, 20 amps for 12 AWG and 30 amps for 10 AWG per NEC 310-17 footnote.
NOTE: The data shown is approximate and subject to standard industry tolerances.

LOW VOLTAGE SINGLE CONDUCTOR CABLE XLP-USE 2



- *Single Conductor*
- *Copper*
- *XLP*
- *Type USE-2 or RHH/RHW-2*
- *Direct Burial*
- *UL 600V*

PRODUCT CONSTRUCTION
Conductor: Annealed copper conductor.
Insulation: XLP chemically cross-linked Polyethylene, surface printed.

APPLICATIONS
For lighting and power applications in accordance with the National Electrical Code and for other general purpose wiring applications at conductor temperatures not exceeding 90°C in wet or dry locations. May be installed in raceway, duct, direct burial and aerial installations. Approved for solar panel interconnection per UL 4703 in grounded systems only.

COMPLIANCES
Listed by UL as Type USE-2 600V – Type RHW-2/RHH 600V.
UL Standard 854: Standard for Safety for Service Entrance Cables.
UL Standard 44: Temperature rating of 90°C wet or dry; meets cold bend test at -40°C; UL sunlight resistant; UL VW-1 flame resistant optional.
Conforms to ICEA S-95-658/NEMA WC70 utilizing column A thickness.
Size 12-4 AWG stranded Cu approved for L-824 Airport Lighting.
ASTM B3 – Standard specification for soft or annealed copper wire.
ASTM B8 – Standard specification for concentric lay stranded copper conductors; hard, medium and soft.
Approved for CT use 1/0 and larger.

MADE IN THE USA

USAWC Part #	Size (AWG or kcmil)	No. of Strands	Insulation Thickness (Mils)	Nom. Diam. (Inches)	Approximate Weight		Ampacity	
					Copper Wt. (lbs./1000 ft.)	Net Wt. (lbs./1000 ft.)	90°C* USE-2 RHW-2 RHH	75°C** USE RHW
Solid								
USA14-01SOLXLPUSE	14	Solid	45	.16	12	21	25	20
USA12-01SOLXLPUSE	12	Solid	45	.18	20	30	30	25
USA10-01SOLXLPUSE	10	Solid	45	.20	31	43	40	35
USA8-01SOLXLPUSE	8	Solid	60	.25	50	68	55	50
Stranded								
USA14-01XLPUSE	14	7	45	.17	13	23	25	20
USA12-01XLPUSE	12	7	45	.19	20	32	30	25
USA10-01XLPUSE	10	7	45	.21	32	45	40	35
USA8-01XLPUSE	8	7	60	.27	51	72	55	50
USA6-01XLPUSE	6	7	60	.31	81	105	75	65
USA4-01XLPUSE	4	7	60	.36	129	155	95	85
USA2-01XLPUSE	2	7	60	.41	205	234	130	115
USA1-01XLPUSE	1	19	80	.49	258	305	150	130
USA1/0-01XLPUSE	1/0	19	80	.53	326	380	170	150
USA2/0-01XLPUSE	2/0	19	80	.58	411	470	195	175
USA3/0-01XLPUSE	3/0	19	80	.63	518	580	225	200
USA4/0-01XLPUSE	4/0	19	80	.68	653	725	260	230
USA250-01XLPUSE	250	37	95	.76	772	865	290	255
USA300-01XLPUSE	300	37	95	.81	926	1025	320	285
USA350-01XLPUSE	350	37	95	.86	1081	1190	350	310
USA400-01XLPUSE	400	37	95	.91	1235	1345	380	335
USA500-01XLPUSE	500	37	95	.99	1544	1665	430	380
USA600-01XLPUSE	600	61	110	1.10	1853	2020	475	420
USA750-01XLPUSE	750	61	110	1.20	2316	2500	535	475
USA1000-01XLPUSE	1000	61	110	1.35	3088	3225	615	545

*AMPACITY in accordance with NEC for not more than three conductors. As RHW-2: in raceway, 90°C conductor temperature and 30°C ambient in wet or dry locations. As RHH: in raceway, 90°C conductor temperature and 30°C ambient in dry locations. As USE-2: direct burial, 90°C conductor temperature and and 30°C in wet locations.

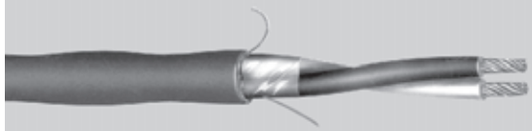
**AMPACITY in accordance with NEC for not more than three conductors. As RHW-2: in raceway, 75°C conductor temperature and 30°C ambient in wet or dry locations. As USE: direct burial, 75°C conductor temperature and 30°C ambient in wet locations.

RoHS UL

1-800-880-9473
In Stock for Same-Day Immediate Shipment

INSTRUMENTATION CABLES
THHN/PVC TYPE TC-ER P-OS AND SP-OS 600V
THHN/PVC TYPE TC-ER T-OS AND ST-OS 600V

PDS 5:29



Specifications: ASTM B-8, UL 1277 & 1309, CSA C22.2 No. 239, IEEE 1580, UL 1309

OKOSEAL-N TYPE P-OS
UL Type TC Cable/600V Rated 90°C wet or dry, Sun Res, cUL Type CIC

UL and ABS listed as Marine Shipboard Cable (Okomarine) 600/1000V

Construction: Stranded copper conductors, Okoseal insulation, nylon jacket, color coded black/white, twisted into one pair or black/white/red triad, aluminum/polyester shield and coated stranded copper drain wire, rip cord, Okoseal jacket.

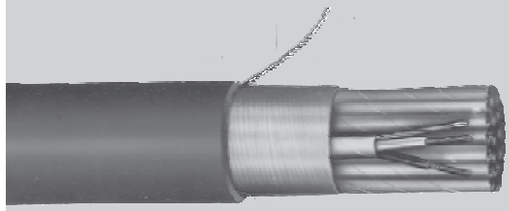
Sizes: #18, #16 & #14 AWG

Application: For use on Class 1 Remote-Control and Signaling circuits or where a 600V cable is desired, as instrumentation, process control and computer cable, transmitting signals at levels above 100 millivolts, except in areas subject to abnormally high current or voltage interference such as proximity to large motors, generators and substations. Suitable for installation in wet or dry locations, may be installed in cable tray, rigid metal conduit, intermediate metal conduit, electrical metallic tubing, or other approved raceways. Authorized in Class I, Division 2 or Class II, Division 2 or Class III, Division 2 hazardous locations. Also for use as non power limited fire protective signaling cable (NPLF) per NEC Code 760. Meets UL 1277, IEEE 383-74, and IEEE 1202 vertical tray flame tests. cUL listed CIC.

Single Pair/Triad P-OS Cables

Catalog Number	Conductor Size AWG (Strands)	Number of Pairs	Number of Triads	Insulation Thickness-mils	Jacket Thickness-mils	Approx. O.D.-Inches	Approx. Net Wt. (lbs/M')
264-60-3301	18(7X)	1		15/4	45	0.27	48
264-60-4401	16(7X)	1		15/4	45	0.29	56
264-60-5501	14(7X)	1		15/4	45	0.32	75
264-65-4401	16(7X)		1	15/4	45	0.31	69

PDS 5:31



Specifications: ASTM B-8, UL 1277, CSA C22.2 No. 239, IEEE 1580, UL 1309

OKOSEAL-N TYPE SP-OS
UL Type TC Cable/600V Rated 90°C wet or dry, Sun Res, cUL Type CIC

UL and ABS listed as Marine Shipboard Cable (Okomarine) 600/1000V

Construction: Stranded copper conductors, Okoseal insulation with nylon covering on primaries, color coded black/white, twisted into groups of pairs or black/white/red triads, numeric print group identification, aluminum/polyester shield and coated stranded copper drain wire over each group with 100% isolation between group shields, multiple groups assembled, aluminum-polyester shield and coated stranded copper drain wire overall, rip cord, Okoseal jacket.

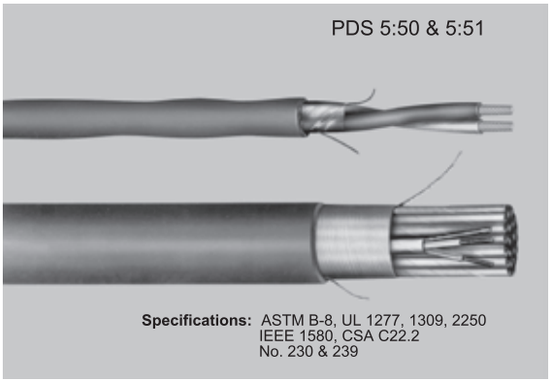
Sizes: #16 AWG

Application: For use on Class 1 Remote-Control and Signaling circuits or where a 600V rated cable is desired; for control, signal, and communication circuits; indoors or outdoors, in cable trays, in raceways, direct burial (8/PR and larger), supported by a messenger in outdoor locations, and in cable tray in Class I, Division 2 or Class II, Division 2 or Class III, Division 2 hazardous locations. Also for use as non power limited fire protective signaling cable (NPLF) per NEC Code 760. Meets UL 1277, IEEE 383-74, and IEEE 1202 vertical tray flame tests. cUL listed CIC.

Multi-Pair/Triad SP-OS Cables

Catalog Number	Conductor Size AWG (Strands)	Number of Pairs	Number of Triads	Insulation Thickness-mils	Jacket Thickness-mils	Approx. O.D.-Inches	Approx. Net Wt. (lbs/M')
261-60-4402	16(7X)	2		15/4	45	0.44	114
261-60-4404	16(7X)	4		15/4	60	0.58	198
261-60-4408	16(7X)	8		15/4	60	0.72	337
261-60-4412	16(7X)	12		15/4	80	0.91	515
261-60-4416	16(7X)	16		15/4	80	1.04	639
261-60-4424	16(7X)	24		15/4	80	1.18	925
261-65-4408	16(7X)		8	15/4	80	0.79	478
261-65-4412	16(7X)		12	15/4	80	1.00	674

INSTRUMENTATION CABLES
FRXLP/PVC TYPE TC-ER P-OS AND SP-OS 600V



Specifications: ASTM B-8, UL 1277, 1309, 2250
IEEE 1580, CSA C22.2
No. 230 & 239

X-OLENE TYPE P-OS/SP-OS CABLE 600V
UL Type TC-ER/ITC-ER
cUL Type CIC-TC

UL listed as Marine Shipboard Cable 600/1000V

Construction: Stranded copper conductors, X-Olene insulation, color coded, twisted into pair or triad, or groups of pairs or triads, numeric print group identification, aluminum/polyester shield and coated stranded copper drain wire over each group with 100% isolation between group shields, multiple groups assembled, aluminum/polyester shield and coated stranded copper drain wire overall, rip cord, with Okoseal jacket. Pairs are black/white and numbered color code. Triads are black/white/red and numbered color code.

Conductor Temperature: 90°C wet or dry

Sizes: #16 AWG

Application: For use on Class I Remote-Control Signaling circuits; where a 600V rated cable is desired; for control, signal, and communication circuits; indoors or outdoors, in cable trays, in raceways, direct burial, supported by a messenger in outdoor locations. Suitable for Class I Division 2, Class II Division 2, or Class III Division 2 hazardous locations. Meets UL 1277, IEEE 383-74, and IEEE 1202 vertical tray flame tests. UL listed TC-ER, ITC-ER, and Marine Shipboard. cUL listed CIC-TC.

Single Pair/Triad P-OS Cables

Catalog Number	Conductor Size AWG (Strands)	Number of Pairs	Number of Triads	Insulation Thickness-mils	Jacket Thickness-mils	Approx. O.D.-In.	Approx. Net Wt. (lbs/M')
267-40-3401	16(7X)	1		30	45	0.35	74
267-41-3401	16(7X)		1	30	45	0.37	86

Multi-Pair/Triad SP-OS Cables

Catalog Number	Conductor Size AWG (Strands)	Number of Pairs	Number of Triads	Insulation Thickness-mils	Jacket Thickness-mils	Approx. O.D.-In.	Approx. Net Wt. (lbs/M')
268-40-3402	16(7X)	2		30	60	0.60	201
268-40-3404	16(7X)	4		30	60	0.69	264
268-40-3408	16(7X)	8		30	80	0.91	457
268-40-3412	16(7X)	12		30	80	1.08	618
268-40-3424	16(7X)	24		30	80	1.46	1070
268-41-3402	16(7X)		2	30	60	0.67	245
268-41-3404	16(7X)		4	30	60	0.79	335
268-41-3408	16(7X)		8	30	80	1.04	588
268-41-3412	16(7X)		12	30	80	1.23	806
268-41-3424	16(7X)		24	30	80	1.67	1439

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INSTRUMENTATION CABLES
FRXLP/CPE TYPE TC-ER P-OS 600V



- ***Pairs/Triads***
- ***XLPE***
- ***CPE***
- ***OS***
- ***Type TC***
- ***600V***

PRODUCT CONSTRUCTION
Conductor: 18 AWG and 16 AWG annealed copper per ASTM B33. Class B stranding per ASTM B8.
Insulation: Flame-retardant Cross-linked Polyethylene (XLPE). Color-coded per ICEA Method 1: Pairs – black and white; Triads – black, white and red. One conductor in each pair is printed alphanumerically for easy identification.
Shield: *Overall shielded pairs/triads.* Overall shield is aluminum/polymer in contact with stranded tinned copper drain wire.
Jacket: Lead-free, flame-retardant, thermoplastic Chlorinated Polyethylene (CPE).

APPLICATIONS
In free air, raceways or direct burial. In wet or dry locations. Permitted for use in Class I, Division 2 industrial hazardous locations per NEC.

FEATURES
Rated at 90ºC wet or dry. Ripcord applied to all cables with jacket thickness of 60 mils or less. Excellent physical, thermal and electrica properties. Excellent moisture resistence. Excellent resistance to compression cuts and heat deformation. Excellent flame resistance – burns to an ash; does not exhibit thermoplastic drip. Low coefficient of friction for easy pulling. Sunlight- and weather-resistant. Excellent low temperature cold bend characteristics. Meets cold bend test at -40ºC.

COMPLIANCES
Industry: UL 1277 Type TC. UL 1581. ICEA S-73-532/NEMA WC57.
Flame Test: UL 1581/UL 2556 VW-1. UL 1685 Vertical Flame Test. IEEE 383. IEEE 1202. CSA FT4. ICEA T-29-520.
Other: EPA 40 CFR, Part 261, for leachable lead content per TCLP. OSHA acceptable.

USAWC Part #	No of Pairs/Triads	Size / Strands	Insulation Thickness (Inches)	Jacket Thickness (Inches)	Nominal OD (Inches)	Copper Weight (lbs./1000 ft.)	Net Weight (lbs./1000 ft.)
USA18-01POSXCPETC	1	18 / 7 str	.025	.045	.300	13	42
USA18-01TOSXCPETC	1 TRI	18 / 7 str	.025	.045	.315	18	53
USA16-01POSXCPETC	1	16 / 7 str	.025	.045	.320	18	52
USA16-01TOSXCPETC	1 TRI	16 / 7 str	.025	.045	.335	26	66

INSTRUMENTATION CABLES
FRXLP/CPE TYPE TC-ER SP-OS 600V



- ***Pairs***
- ***XLPE***
- ***CPE***
- ***SPOS***
- ***Type TC***
- ***600V***

PRODUCT CONSTRUCTION

Conductor: 18 AWG and 16 AWG annealed copper per ASTM B33. Class B stranding per ASTM B8.
Insulation: Flame-retardant Cross-linked Polyethylene (XLPE). Color-coded per ICEA Method 1: Pairs – black and white. One conductor in each pair is printed alphanumerically for easy identification.
Shield: *Individual and overall shielded pairs.* Individual pairs are 100% shielded with aluminum/polyester in contact with stranded tinned copper drain wire. Overall shield is aluminum/polymer in contact with stranded tinned copper drain wire.
Jacket: Lead-free, flame-retardant, thermoplastic Chlorinated Polyethylene (CPE).

APPLICATIONS
In free air, raceways or direct burial. In wet or dry locations. Permitted for use in Class I, Division 2 industrial hazardous locations per NEC.

FEATURES
Rated at 90ºC wet or dry. Ripcord applied to all cables with jacket thickness of 60 mils or less. Excellent physical, thermal and electrica properties. Excellent moisture resistence. Excellent resistance to compression cuts and heat deformation. Excellent flame resistance – burns to an ash; does not exhibit thermoplastic drip. Low coefficient of friction for easy pulling. Sunlight- and weather-resistant. Excellent low temperature cold bend characteristics. Meets cold bend test at -40ºC.

COMPLIANCES
Industry: UL 1277 Type TC. UL 1581. ICEA S-73-532/NEMA WC57.
Flame Test: UL 1581/UL 2556 VW-1. UL 1685 Vertical Flame Test. IEEE 383. IEEE 1202. CSA FT4. ICEA T-29-520.
Other: EPA 40 CFR, Part 261, for leachable lead content per TCLP. OSHA acceptable.

USAWC Part #	No. of Pairs	Size Strands	Insulation Thickness (Inches)	Jacket Thickness (Inches)	Nominal OD (Inches)	Copper Approx. Net Wt. (lbs./1000 ft.)	Net Wt. (lbs./1000 ft.)
USA18-02SPOSXCPETC	2	18 7/Str	.025	.045	.473	27	83
USA18-04SPOSXCPETC	4	18 7/Str	.025	.060	.586	53	152
USA18-08SPOSXCPETC	8	18 7/Str	.025	.060	.751	103	259
USA18-12SPOSXCPETC	12	18 7/Str	.025	.080	.948	153	398
USA18-16SPOSXCPETC	16	18 7/Str	.025	.080	1.050	206	502
USA18-24SPOSXCPETC	24	18 7/Str	.025	.080	1.220	311	709
USA18-36SPOSXCPETC	36	18 7/Str	.025	.080	1.474	461	1008
USA18-50SPOSXCPETC	50	18 7/Str	.025	.110	1.780	640	1454
USA16-02SPOSXCPETC	2	16 7/Str	.025	.045	.500	40	103
USA16-04SPOSXCPETC	4	16 7/Str	.025	.060	.650	77	189
USA16-06SPOSXCPETC	6	16 7/Str	.025	.060	.755	115	268
USA16-08SPOSXCPETC	8	16 7/Str	.025	.060	.840	151	330
USA16-12SPOSXCPETC	12	16 7/Str	.025	.080	1.065	226	506
USA16-16SPOSXCPETC	16	16 7/Str	.025	.080	1.185	305	643
USA16-24SPOSXCPETC	24	16 7/Str	.025	.080	1.485	455	932
USA16-36SPOSXCPETC	36	16 7/Str	.025	.080	1.760	683	1410
USA16-50SPOSXCPETC	50	16 7/Str	.025	.110	2.035	946	1883

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INSTRUMENTATION CABLES
FRPVC/PVC TYPE THERMOCOUPLE P-OS AND SP-OS 300V



- ***Pairs***
- ***PVC***
- ***PVC***
- ***OS/SPOS***
- ***Type PLTC/ITC***
- ***300V***

PRODUCT CONSTRUCTION

Conductor: Solid thermocouple extension alloy conductors per ANSI MC96.1.
Insulation: 105ºC PVC. Minimum average insulation thickness for 20 and 16 AWG is .0015 in.
Shield: Pairs are shielded with 100% coverage aluminum/polyester tape and include a tinned copper drain wire. Shield tape provides total shield isolation from all other shields. Cabled pairs are overall shielded with 100% coverage aluminum/polyester with 100% coverage aluminum/polyester tape, including a 20 AWG, seven-strand tinned copper drain wire. Aluminum/polyester tape thickness of .00135 in. Overall shielded designs with copper tape or braided tinned copper are also available.
Jacket: 105ºC FR PVC, sunlight-resistant, thickness per UL 13 and UL 2250, footage sequentially printed. Thermocouple extension cables use the ANSI color corresponding to the thermocouple extension alloy type contained in the construction. Additional colors are available upon request.

APPLICATIONS

UL listed 300 V Power Limited Tray Cable (PLTC)/Instrumentation Tray Cable (ITC) to UL 13 and UL 2250 for use in Class I, Zone 2 and Class II, Division 2 industrial hazardous locations per NEC.

FEATURES

Sunlight-resistant. Overall cable rated 105ºC per UL.

COMPLIANCES

Flame Test: UL 1685 Vertical Flame Test. IEEE 383. IEEE 1202.

Jackets: KX – yellow jacket, EX – purple jacket, JX – black jacket, NX – orange jacket, SX – green jacket, TX – blue jacket
Solid conductors are standard; stranded is available upon request. 300 V is standard; 600 V is available upon request.

Replace underscore with alloy type.

USAWC Part #	No. of Pairs	Size (AWG)	Jacket Thickness (Inches)	Nominal OD (Inches)	Weight (lbs./1000 ft.)
USA20-01POS_XPVC	1	20	.035	.203	24
USA20-02SPOS_XPVC	2	20	.040	.322	58
USA20-04SPOS_XPVC	4	20	.040	.367	81
USA20-08SPOS_XPVC	8	20	.050	.488	148
USA20-12SPOS_XPVC	12	20	.050	.584	208
USA20-16SPOS_XPVC	16	20	.060	.666	272
USA20-24SPOS_XPVC	24	20	.060	.812	389
USA20-36SPOS_XPVC	36	20	.070	.949	566
USA20-50SPOS_XPVC	50	29	.070	1.088	756
USA16-01POS_XPVC	1	16	.035	.253	43
USA16-02SPOS_XPVC	2	16	.050	.432	106
USA16-04SPOS_XPVC	4	16	.050	.495	160
USA16-08SPOS_XPVC	8	16	.060	.657	299
USA16-12SPOS_XPVC	12	16	.060	.791	426
USA16-16SPOS_XPVC	16	16	.060	.877	540
USA16-24SPOS_XPVC	24	16	.070	1.106	811
USA16-36SPOS_XPVC	36	16	.070	1.264	1153
USA16-50SPOS_XPVC	50	16	.080	1.479	1589

MULTI CONDUCTOR CABLES (14AWG)
THHN-PVC TC ER CONTROL CABLE 600V



- ***Multi-Conductor***
- ***PVC/Nylon***
- ***PVC***
- ***Type TC-ER***
- ***600V***

PRODUCT CONSTRUCTION

Conductor: 14 AWG fully annealed, stranded, bare copper per ASTM B3. Class B stranding per ASTM B8.
Insulation: Flame-retardant Polyvinyl Chloride (PVC) with clear Polyamide (nylon). Color-coded per ICEA Method 1, Table E2 (does not include white or green).
Jacket: Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC).

APPLICATIONS

In free air, raceways or direct burial. In wet or dry locations. For use in Class 1, Division 2 industrial hazardous locations per NEC. Permitted for Exposed Run (ER) use in accordance with NEC for three or more conductors.

FEATURES

Rated at 90ºC dry, 75º wet. Provides outstanding sunlight, cold bend and cold impact resistance. Provides good oil and chemical resistance. Meets cold bend text at -25ºC.

COMPLIANCES

Industry: UL 1277 Type TC-ER for three or more conductors. ICEA S-73-532/NEMA WC57. UL 1581.
Flame Test: UL 1685 Vertical Flame Test. IEEE 383. IEEE 1202. CSA FT4.
Other: EPA 40 CFR, Part 261, for leachable lead content per TCLP. OSHA acceptable. RoHS compliant.

#14 AWG-7 Strand

USAWC Part #	No. of Conductors	Overall PVC Jacket (Mils)	Nom. Diam. (Inches)	Approx. Net Wt. (lbs./1000 ft.)	Copper Weight (lbs./1000 ft.)
USA14-02VNTC	2	45	.21 x .33	55	26
USA14-03VNTC	3	45	.34	75	39
USA14-03VNGTC	3w/g	45	.35	92	52
USA14-04VNTC	4	45	.37	100	52
USA14-05VNTC	5	45	.41	115	65
USA14-06VNTC	6	45	.44	140	78
USA14-07VNTC	7	45	.44	150	90
USA14-09VNTC	9	45	.51	195	116
USA14-10VNTC	10	60	.58	220	130
USA14-12VNTC	12	60	.60	265	155
USA14-15VNTC	15	60	.66	310	195
USA14-16VNTC	16	60	.66	340	208
USA14-19VNTC	19	60	.70	390	245
USA14-20VNTC	20	60	.73	415	260
USA14-25VNTC	25	80	.85	540	323
USA14-37VNTC	37	80	.96	755	478

1-800-880-9473
In Stock for Same-Day Immediate Shipment

MULTI CONDUCTOR CABLES (12AWG)
THHN/PVC TYPE TC-ER CONTROL CABLE 600V



- ***Multi-Conductor***
- ***PVC/Nylon***
- ***PVC***
- ***Type TC-ER***
- ***600V***

PRODUCT CONSTRUCTION

Conductor: 12 AWG fully annealed, stranded, bare copper per ASTM B3. Class B stranding per ASTM B8.
Insulation: Flame-retardant Polyvinyl Chloride (PVC) with clear Polyamide (nylon). Color-coded per ICEA Method 1, Table E2 (does not include white or green).
Jacket: Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC).

APPLICATIONS

In free air, raceways or direct burial. In wet or dry locations. For use in Class 1, Division 2 industrial hazardous locations per NEC. Permitted for Exposed Run (ER) use in accordance with NEC for three or more conductors.

FEATURES

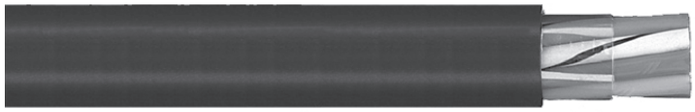
Rated at 90ºC dry, 75º wet. Provides outstanding sunlight, cold bend and cold impact resistance. Provides good oil and chemical resistance. Meets cold bend text at -25ºC.

COMPLIANCES

Industry: UL 1277 Type TC-ER for three or more conductors. ICEA S-73-532/NEMA WC57. UL 1581.
Flame Test: UL 1685 Vertical Flame Test. IEEE 383. IEEE 1202. CSA FT4.
Other: EPA 40 CFR, Part 261, for leachable lead content per TCLP. OSHA acceptable. RoHS compliant.

#12 AWG-7 Strand					
USAWC Part #	No. of Conductors	Overall PVC Jacket (Mils)	Nom. Diam. (Inches)	Approx. Net Wt. (lbs./1000 ft.)	Copper Weight (lbs./1000 ft.)
USA12-02VNTC	2	45	.23 x .37	75	41
USA12-03VNTC	3	45	.36	105	63
USA12-03VNGTC	3w/g	45	.40	130	86
USA12-04VNTC	4	45	.40	135	86
USA12-05VNTC	5	45	.45	165	108
USA12-06VNTC	6	45	.50	195	126
USA12-07VNTC	7	45	.50	215	144
USA12-09VNTC	9	60	.62	300	185
USA12-10VNTC	10	60	.66	325	210
USA12-12VNTC	12	60	.68	375	247
USA12-15VNTC	15	60	.76	455	315
USA12-16VNTC	16	60	.76	485	336
USA12-19VNTC	19	60	.79	565	391
USA12-20VNTC	20	80	.89	590	420
USA12-25VNTC	25	80	.96	770	515
USA12-37VNTC	37	80	1.10	1090	762

MULTI CONDUCTOR CABLES (10AWG)
THHN/PVC TYPE TC-ER CONTROL CABLE 600V



- ***Multi-Conductor***
- ***PVC/Nylon***
- ***PVC***
- ***Type TC-ER***
- ***600V***

PRODUCT CONSTRUCTION

Conductor: 10 AWG fully annealed, stranded, bare copper per ASTM B3. Class B stranding per ASTM B8.
Insulation: Flame-retardant Polyvinyl Chloride (PVC) with clear Polyamide (nylon). Color-coded per ICEA Method 1, Table E2 (does not include white or green).
Jacket: Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC).

APPLICATIONS

In free air, raceways or direct burial. In wet or dry locations. For use in Class 1, Division 2 industrial hazardous locations per NEC. Permitted for Exposed Run (ER) use in accordance with NEC for three or more conductors.

FEATURES

Rated at 90ºC dry, 75º wet. Provides outstanding sunlight, cold bend and cold impact resistance. Provides good oil and chemical resistance. Meets cold bend text at -25ºC.

COMPLIANCES

Industry: UL 1277 Type TC-ER for three or more conductors. ICEA S-73-532/NEMA WC57. UL 1581.
Flame Test: UL 1685 Vertical Flame Test. IEEE 383. IEEE 1202. CSA FT4.
Other: EPA 40 CFR, Part 261, for leachable lead content per TCLP. OSHA acceptable. RoHS compliant.

#10 AWG-7 Strand					
USAWC Part #	No. of Conductors	Overall PVC Jacket (Mils)	Nom. Diam. (Inches)	Approx. Net Wt. (lbs./1000 ft.)	Copper Weight (lbs./1000 ft.)
USA10-02 VNTC	2	45	.26 x.43	110	65
USA10-03 VNTC	3	45	.46	155	98
USA10-03VNGTC	3w/g	45	.47	194	131
USA10-04VNTC	4	45	.50	200	135
USA10-05VNTC	5	60	.58	265	169
USA10-06VNTC	6	60	.63	315	192
USA10-07VNTC	7	60	.63	345	236
USA10-09VNTC	9	60	.73	450	295
USA10-10VNTC	10	60	.81	500	320
USA10-12VNTC	12	60	.82	580	404
USA10-15VNTC	15	80	.95	745	480
USA10-16VNTC	16	80	.95	810	512
USA10-19VNTC	19	80	1.02	940	608
USA10-20VNTC	20	80	1.07	990	640
USA10-25VNTC	25	80	1.19	1210	800
USA10-37VNTC	37	80	1.36	1710	1184

1-800-880-9473
In Stock for Same-Day Immediate Shipment

MULTI CONDUCTOR CABLES
THHN/PVC TYPE TC-ER POWER CABLE 600V (3C)



- *3C w/Ground*
- *PVC/Nylon*
- *PVC*
- *Type TC-ER*
- *600V*

PRODUCT CONSTRUCTION

Conductor: 8 AWG through 1000 kcmil bare, annealed copper per ASTM B3. Class B stranding per ASTM B8.
Insulation: Flame-retardant Polyvinyl Chloride (PVC) with clear Polyamide (nylon). Color-coded per ICEA Method 4; individual conductors colored black with conductor number surface printed in contrasting ink.
Jacket: Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC).

APPLICATIONS

In free air, raceways or direct burial. In wet or dry locations. For use in Class 1, Division 2 industrial hazardous locations per NEC. Permitted for Exposed Run (ER) use in accordance with NEC for three or more conductors.

FEATURES

Rated at 90ºC dry, 75º wet. Provides outstanding sunlight, cold bend and cold impact resistance. Provides good oil and chemical resistance. Meets cold bend text at -25ºC.

COMPLIANCES

Industry: NEC Type THHN/THWN conductors. UL 1277 Type TC-ER, UL 1581. ICEA S-95-658/NEMA WC70.
Flame Test: UL 1685 Vertical Flame Test. IEEE 383. IEEE 1202. CSA FT4.
Other: EPA 40 CFR, Part 261, for leachable lead content per TCLP. OSHA acceptable. RoHS compliant.

Three Conductors With Grounding Conductor

USAWC Part #	Size (AWG or kcmil)	No. of Strands	Thickness in Mils			Nominal Diameter (Inches)	Grounding Conductor Size' (AWG)	Approx. Net Wt. (lbs./1000 ft.)	Copper Weight (lbs./1000 ft.)	Ampacity*	
			PVC Insulation	Nylon Jacket	Overall PVC Jacket					90°C Dry	75°C Wet
USA8-03VNGTC	8	7	30	5	60	.62	10	315	189	55	50
USA6-03VNGTC	6	7	30	5	60	.70	8	445	300	75	65
USA4-03VNGTC	4	7	40	6	80	.88	8	675	446	95	85
USA2-03VNGTC	2	7	40	6	80	1.01	6	995	710	130	115
USA1-03VNGTC	1	19	50	7	80	1.14	6	1200	855	150	130
USA1/0-03VNGTC	1/0	19	50	7	80	1.23	6	1480	1080	170	150
USA2/0-03VNGTC	2/0	19	50	7	80	1.32	6	1770	1340	195	175
USA3/0-03VNGTC	3/0	19	50	7	80	1.43	4	2180	1683	225	200
USA4/0-03VNGTC	4/0	19	50	7	80	1.56	4	2690	2130	260	230
USA250-03VNGTC	250	37	60	8	110	1.76	4	3225	2494	290	255
USA350-03VNGTC	350	37	60	8	110	1.98	3	4370	3474	350	310
USA500-03VNGTC	500	37	60	8	110	2.26	2	5960	4934	430	380
USA750-03VNGTC	750	61	70	9	110	2.71	1	9050	7206	535	475
USA1000-03VNGTC	1000	61	70	9	140	3.10	1/0	11720	9584	615	545

*AMPACITY in accordance with the NEC for cables in uncovered cable tray without maintained spacing and for cables in raceway or directly buried; 90˚C conductor temperature for dry locations, 75˚C conductor temperature for wet locations, 30˚C ambient temperature.

MULTI CONDUCTOR CABLES
THHN/PVC TYPE TC-ER POWER CABLE 600V (4C)



- *4C w/Ground*
- *PVC/Nylon*
- *PVC*
- *Type TC-ER*
- *600V*

PRODUCT CONSTRUCTION

Conductor: 8 AWG through 500 kcmil bare, annealed copper per ASTM B3. Class B stranding per ASTM B8.
Insulation: Flame-retardant Polyvinyl Chloride (PVC) with clear Polyamide (nylon). Color-coded per ICEA Method 4; individual conductors colored black with conductor number surface printed in contrasting ink.
Jacket: Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC).

APPLICATIONS

In free air, raceways or direct burial. In wet or dry locations. For use in Class 1, Division 2 industrial hazardous locations per NEC. Permitted for Exposed Run (ER) use in accordance with NEC for three or more conductors.

FEATURES

Rated at 90ºC dry, 75º wet. Provides outstanding sunlight, cold bend and cold impact resistance. Provides good oil and chemical resistance. Meets cold bend text at -25ºC.

COMPLIANCES

Industry: NEC Type THHN/THWN conductors. UL 1277 Type TC-ER, UL 1581. ICEA S-95-658/NEMA WC70.
Flame Test: UL 1685 Vertical Flame Test. IEEE 383. IEEE 1202. CSA FT4.
Other: EPA 40 CFR, Part 261, for leachable lead content per TCLP. OSHA acceptable. RoHS compliant.

Four Conductors With Grounding Conductor

USAWC Part #	Size (AWG or kcmil)	No. of Strands	Thickness in Mils			Nominal Diameter (Inches)	Grounding Conductor Size[1] (AWG)	Approx. Net Wt. (lbs./1000 ft.)	Copper Weight (lbs./1000 ft.)	Ampacity*	
			PVC Insulation	Nylon Jacket	Overall PVC Jacket					90°C Dry	75°C Wet
USA8-04VNGTC	8	7	30	5	60	.66	10	373	241	55	50
USA6-04VNGTC	6	7	30	5	60	.76	8	533	383	75	65
USA4-04VNGTC	4	7	40	6	80	.97	8	824	578	95	85
USA2-04VNGTC	2	7	40	6	80	1.10	6	1227	919	130	115
USA1/0-04VNGTC	1/0	19	50	7	80	1.36	6	1830	1413	170	150
USA2/0-04VNGTC	2/0	19	50	7	80	1.46	6	2252	1760	195	175
USA4/0-04VNGTC	4/0	19	50	7	80	1.77	4	3502	2796	260	230
USA250-04VNGTC	250	37	60	8	110	1.95	4	4107	3281	290	255
USA350-04VNGTC	350	37	60	8	110	2.19	3	5585	4586	350	310
USA500-04VNGTC	500	37	60	8	110	2.51	2	7694	6509	430	380

*AMPACITY in accordance with the NEC for cables in uncovered cable tray without maintained spacing and for cables in raceway or directly buried; 90˚C conductor temperature for dry locations, 75˚C conductor temperature for wet locations, 30˚C ambient temperature.

[1]NOTE: Grounding conductor per UL Standard 1277 for Type TC Tray Cable.

1-800-880-9473
In Stock for Same-Day Immediate Shipment

LOW VOLTAGE MULTI CONDUCTOR (14AWG)
FRXLP/PVC TYPE TC-ER CONTROL CABLE 600V



- ***Multi-Conductor***
- ***XLP***
- ***PVC***
- ***Type TC-ER***
- ***600V***

PRODUCT CONSTRUCTION

Conductor: 14 AWG fully annealed, stranded, bare copper per ASTM B3. Class B stranding per ASTM B8.
Insulation: Flame-retardant Cross-linked Polyethylene (XLP). Color-coded per ICEA Method 1, Table E-2 (does not include white or green).
Jacket: Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC).

APPLICATIONS

In free air, raceways or direct burial. In wet or dry locations. For use in Class 1, Division 2 industrial hazardous locations per NEC. Permitted for Exposed Run (ER) use in accordance with NEC for three or more conductors.

FEATURES

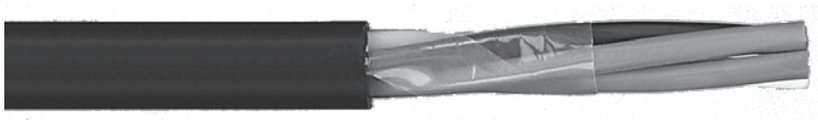
Rated at 90ºC dry, 75º wet. Excellent electrical properties. Abrasion- and chemical-resistant. Sunlight- and weather-resistant. Meets cold bend test at -25ºC.

COMPLIANCES

Industry: UL 44 Type XHHW-2. UL 1277 Type TC-ER for three or more conductors. UL 1581. ICEA S-73-532/NEMA WC57.
Flame Test: UL 1581/UL 2556 VW-1. UL 1685 Vertical Flame Test. IEEE 383. IEEE 1202. ICEA T-29-520 (210,000 BTU/hr). CSA FT4.
Other: EPA 40 CFR, Part 261, for leachable lead content per TCLP. OSHA acceptable.

#14 AWG-7 Strand					
USAWC Part #	No. of Conductors	Overall PVC Jacket (Mils)	Nom. Diam. (Inches)	Approx. Net Wt. (lbs./1000 ft.)	Copper Weight (lbs./1000 ft.)
USA14-02XPTC	2	45	.23 x .37	65	25
USA14-03XPTC	3	45	.39	90	40
USA14-03WGXPTC	3+ Grnd	45	.42	110	53
USA14-04XPTC	4	45	.43	113	53
USA14-05XPTC	5	45	.47	137	66
USA14-06XPTC	6	45	.51	160	78
USA14-07XPTC	7	45	.51	180	93
USA14-09XPTC	9	60	.63	250	119
USA14-10XPTC	10	60	.69	270	130
USA14-12XPTC	12	60	.70	310	159
USA14-15XPTC	15	60	.78	380	195
USA14-16XPTC	16	60	.78	400	208
USA14-19XPTC	19	60	.82	460	252
USA14-20XPTC	20	80	.90	525	260
USA14-25XPTC	25	80	1.00	640	323
USA14-37XPTC	37	80	1.14	890	490

MULTI CONDUCTOR CABLES (12AWG)
FRXLP/PVC TYPE TC-ER CONTROL CABLE 600V



- ***Multi-Conductor***
- ***XLP***
- ***PVC***
- ***Type TC-ER***
- ***600V***

PRODUCT CONSTRUCTION
Conductor: 12 AWG fully annealed, stranded, bare copper per ASTM B3. Class B stranding per ASTM B8.
Insulation: Flame-retardant Cross-linked Polyethylene (XLP). Color-coded per ICEA Method 1, Table E-2.
Jacket: Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC).

APPLICATIONS
In free air, raceways or direct burial. In wet or dry locations. For use in Class 1, Division 2 industrial hazardous locations per NEC. Permitted for Exposed Run (ER) use in accordance with NEC for three or more conductors.

FEATURES
Rated at 90ºC dry, 75º wet. Excellent electrical properties. Abrasion- and chemical-resistant. Sunlight- and weather-resistant. Meets cold bend test at -25ºC.

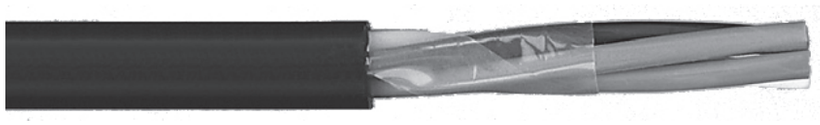
COMPLIANCES
Industry: UL 44 Type XHHW-2. UL 1277 Type TC-ER for three or more conductors. UL 1581. ICEA S-73-532/NEMA WC57.
Flame Test: UL 1581/UL 2556 VW-1. UL 1685 Vertical Flame Test. IEEE 383. IEEE 1202. ICEA T-29-520 (210,000 BTU/hr). CSA FT4.
Other: EPA 40 CFR, Part 261, for leachable lead content per TCLP. OSHA acceptable.

#12 AWG-7 Strand					
USAWC Part #	No. of Conductors	Overall PVC Jacket (Mils)	Nom. Diam. (Inches)	Approx. Net Wt. (lbs./1000 ft.)	Copper Weight (lbs./1000 ft.)
USA12-02XPTC	2	45	.25 x.41	85	41
USA12-03XPTC	3	45	.44	120	65
USA12-03XPGTC	3 w/g	45	.44	143	86
USA12-04XPTC	4	45	.48	154	86
USA12-05XPTC	5	45	.53	190	108
USA12-06XPTC	6	60	.60	235	126
USA12-07XPTC	7	60	.60	265	150
USA12-09XPTC	9	60	.70	340	193
USA12-10XPTC	10	60	.77	370	210
USA12-12XPTC	12	60	.79	430	258
USA12-15XPTC	15	80	.92	535	315
USA12-16XPTC	16	80	.92	570	336
USA12-19XPTC	19	80	.96	675	403
USA12-20XPTC	20	80	1.01	710	420
USA12-25XPTC	25	80	1.12	890	515
USA12-37XPTC	37	80	1.28	1310	741

Note: Cables designated (w/g) contain an additional bare copper grounding conductor, same size as circuit conductors, and are UL listed

1-800-880-9473
In Stock for Same-Day Immediate Shipment

MULTI CONDUCTOR CABLES (10AWG)
FRXLP/PVC TYPE TC-ER CONTROL CABLE 600V



- ***Multi-Conductor***
- ***XLP***
- ***PVC***
- ***Type TC-ER***
- ***600V***

PRODUCT CONSTRUCTION

Conductor: 10 AWG fully annealed, stranded, bare copper per ASTM B3. Class B stranding per ASTM B8.
Insulation: Flame-retardant Cross-linked Polyethylene (XLP). Color-coded per ICEA Method 1, Table E-2 (does not include white or green).
Jacket: Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC).

APPLICATIONS

In free air, raceways or direct burial. In wet or dry locations. For use in Class 1, Division 2 industrial hazardous locations per NEC. Permitted for Exposed Run (ER) use in accordance with NEC for three or more conductors.

FEATURES

Rated at 90ºC dry, 75º wet. Excellent electrical properties. Abrasion- and chemical-resistant. Sunlight- and weather-resistant. Meets cold bend test at -25ºC.

COMPLIANCES

Industry: UL 44 Type XHHW-2. UL 1277 Type TC-ER for three or more conductors. UL 1581. ICEA S-73-532/NEMA WC57.
Flame Test: UL 1581/UL 2556 VW-1. UL 1685 Vertical Flame Test. IEEE 383. IEEE 1202. ICEA T-29-520. CSA FT4.
Other: EPA 40 CFR, Part 261, for leachable lead content per TCLP. OSHA acceptable.

#10 AWG-7 Strand					
USAWC Part #	No. of Conductors	Overall PVC Jacket (Mils)	Nom. Diam. (Inches)	Approx. Net Wt. (lbs./1000 ft.)	Copper Weight (lbs./1000 ft.)
USA10-02XPTC	2	45	.28 x.46	117	67
USA10-03XPTC	3	45	.49	167	101
USA10-03XPGTC	3 w/g	45	.49	205	135
USA10-04XPTC	4	60	.57	230	135
USA10-05XPTC	5	60	.62	280	167
USA10-06XPTC	6	60	.67	325	192
USA10-07XPTC	7	60	.67	370	234
USA10-09XPTC	9	60	.79	455	295
USA10-10XPTC	10	80	.90	550	320
USA10-12XPTC	12	80	.93	640	402
USA10-15XPTC	15	80	1.03	775	480
USA10-16XPTC	16	80	1.03	820	512
USA10-19XPTC	19	80	1.08	965	608
USA10-20XPTC	20	80	1.14	1010	640
USA10-25XPTC	25	80	1.26	1235	800
USA10-37XPTC	37	80	1.44	1775	1184

Note: Cables designated (w/g) contain an additional bare copper grounding conductor, same size as circuit conductors, and are UL listed

MULTI CONDUCTOR CABLES
FRXLP/PVC TYPE TC-ER POWER CABLE 600V (3C)



- *3C w/Ground*
- *XLP*
- *PVC*
- *Type TC-ER*
- *600V*

PRODUCT CONSTRUCTION

Conductor: 8 AWG through 1000 kcmil bare, annealed copper per ASTM B3. Class B stranding per ASTM B8.
Insulation: Flame-retardant Cross-linked Polyethylene (XLP). Color-coded per ICEA Method 4; individual conductors colored black with conductor number surface printed in contrasting ink.
Jacket: Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC).

APPLICATIONS

In free air, raceways or direct burial. In wet or dry locations. For use in Class 1, Division 2 industrial hazardous locations per NEC. Permitted for Exposed Run (ER) use in accordance with NEC.

FEATURES

Rated at 90ºC wet or dry. Excellent electrical properties. Abrasion- and chemical-resistant. Sunlight- and weather-resistant. Meets cold bend test at -25ºC.

COMPLIANCES

Industry: UL 44 Type XHHW-2. UL 1277 Type TC-ER. UL 1581. ICEA S-95-658/NEMA WC70.
Flame Test: UL 1581/UL 2556 VW-1. UL 1685 Vertical Flame Test. IEEE 383. IEEE 1202. ICEA T-29-520. CSA FT4.
Other: EPA 40 CFR, Part 261, for leachable lead content per TCLP. OSHA acceptable.

Three Conductors With Grounding Conductor

USAWC Part #	Size AWG or kcmil	No. of Strands	Thickness in Mils		Nominal Diameter (Inches)	Grounding Conductor Size (AWG)	Approx. Net Wt. (lbs./1000 ft.)	Copper Weight (lbs./1000 ft.)	Ampacity*	
			Insulation	Jacket					90°C	75°C
USA8-03XPGTC	8	7	45	60	.66	10	325	190	55	50
USA6-03XPGTC	6	7	45	60	.74	8	450	301	75	65
USA4-03XPGTC	4	7	45	80	.88	8	655	448	95	85
USA2-03XPGTC	2	7	45	80	1.00	6	960	716	130	115
USA1-03XPGTC	1	19	55	80	1.13	6	1170	872	150	130
USA1/0-03XPGTC	1/0	19	55	80	1.22	6	1435	1081	170	150
USA2/0-03XPGTC	2/0	19	55	80	1.31	6	1730	1341	195	175
USA3/0-03XPGTC	3/0	19	55	80	1.42	4	2150	1717	225	200
USA4/0-03XPGTC	4/0	19	55	80	1.55	4	2620	2132	260	230
USA250-03XPGTC	250	37	65	110	1.76	4	3180	2494	290	255
USA350-03XPGTC	350	37	65	110	1.98	3	4290	3474	350	310
USA500-03XPGTC	500	37	65	110	2.26	2	5940	4938	430	380
USA750-03XPGTC	750	61	80	110	2.71	1	8660	7278	535	475
USA1000-03XPGTC	1000	61	80	140	3.10	1/0	11700	9590	615	545

*AMPACITY in accordance with the NEC for cables in uncovered cable tray without maintained spacing and for cables in raceway or directly buried; at the conductor temperature indicated, in wet or dry locations, 30ºC ambient temperature.

1-800-880-9473
In Stock for Same-Day Immediate Shipment

MULTI CONDUCTOR CABLES
FRXLP/PVC TYPE TC-ER POWER CABLE 600V (4C)



- *4C w/Ground*
- *XLP*
- *PVC*
- *Type TC-ER*
- *600V*

PRODUCT CONSTRUCTION

Conductor: 8 AWG through 750 kcmil bare, annealed copper per ASTM B3. Class B stranding per ASTM B8.
Insulation: Flame-retardant Cross-linked Polyethylene (XLP). Color-coded per ICEA Method 4; individual conductors colored black with conductor number surface printed in contrasting ink.
Jacket: Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC).

APPLICATIONS

In free air, raceways or direct burial. In wet or dry locations. For use in Class 1, Division 2 industrial hazardous locations per NEC. Permitted for Exposed Run (ER) use in accordance with NEC.

FEATURES

Rated at 90ºC wet or dry. Excellent electrical properties. Abrasion- and chemical-resistant. Sunlight- and weather-resistant. Meets cold bend test at -25ºC.

COMPLIANCES

Industry: UL 44 Type XHHW-2. UL 1277 Type TC-ER. UL 1581. ICEA S-95-658/NEMA WC70.
Flame Test: UL 1581/UL 2556 VW-1. UL 1685 Vertical Flame Test. IEEE 383. IEEE 1202. ICEA T-29-520. CSA FT4.
Other: EPA 40 CFR, Part 261, for leachable lead content per TCLP. OSHA acceptable.

Four Conductors With Grounding Conductor

USAWC Part #	Size AWG or kcmil	No. of Strands	Thickness in Mils		Nominal Diameter (Inches)	Grounding Conductor Size (AWG)	Approx. Net Wt. (lbs./1000 ft.)	Copper Weight (lbs./1000 ft.)	Ampacity*	
			Insulation	Jacket					90°C	75°C
USA8-04XPGTC	8	7	45	60	.72	12	415	242	44	40
USA6-04XPGTC	6	7	45	60	.81	10	575	384	60	52
USA4-04XPGTC	4	7	45	80	.96	10	840	578	76	68
USA2-04XPGTC	2	7	45	80	1.10	9	1200	919	104	92
USA1-04XPGTC	1	19	55	80	1.25	9	1545	1136	120	104
USA1/0-04XPGTC	1/0	19	55	80	1.35	9	1835	1413	136	120
USA2/0-04XPGTC	2/0	19	55	80	1.45	9	2195	1760	156	140
USA3/0-04XPGTC	3/0	19	55	80	1.58	7	2800	2245	180	160
USA4/0-04XPGTC	4/0	19	55	80	1.77	7	3460	2796	208	184
USA250-04XPGTC	250	37	65	110	1.93	7	4040	3282	232	204
USA350-04XPGTC	350	37	65	110	2.18	6	5475	4577	280	248
USA500-04XPGTC	500	37	65	110	2.50	5	7635	6509	344	304
USA750-04XPGTC	750	61	80	140	3.12	4	11400	9712	428	380

*AMPACITY in accordance with the NEC for cables in uncovered cable tray without maintained spacing and for cables in raceway or directly buried; at the conductor temperature indicated, in wet or dry locations, 30˚C ambient temperature.

NOTES: (1) Grounding conductor per UL Standard 1277 for Type TC Tray Cable. (2) Cables with Open Wiring listing available upon request.

MULTI CONDUCTOR CABLES (14AWG)
FRXLP/CPE TYPE TC-ER CONTROL CABLE 600V



- ***Multi-Conductor***
- ***FR-XLP***
- ***CPE***
- ***Type TC-ER***
- ***600V***

PRODUCT CONSTRUCTION

Conductor: 14 AWG fully annealed, stranded, tinned copper per ASTM B33. Class B stranding per ASTM B8.
Insulation: Flame-retardant Cross-linked Polyethylene (XLP). Color-coded per ICEA Method 1, Table E2 (does not include white or green).
Jacket: Lead-free Chlorinated Polyethylene (CPE).

APPLICATIONS

In free air, raceways or direct burial. In wet or dry locations. For use in Class 1, Division 2 industrial hazardous locations For use in Class 1, Division 2 industrial hazardous locations per NEC Article 501 and Class 1 circuits per NEC.

FEATURES

Rated at 90ºC wet or dry. Excellent physical, thermal and electrical properties. Excellent resistance to moisture and flame. Sunlight- and weather-resistant. Meets cold bend test at -35ºC.

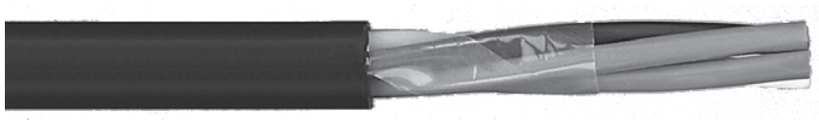
COMPLIANCES

Industry: UL 44 Type XHHW-2. UL 1277 Type TC. UL 1581. ICEA S-73-532/NEMA WC57.
Flame Test: UL 1581/UL 2556 VW-1. UL 1685 Vertical Flame Test. IEEE 383. IEEE 1202. CSA FT4. ICEA T-29-520.
Other: EPA 40 CFR, Part 261, for leachable lead content per TCLP. OSHA acceptable.

#14 AWG-7 Strand					
USAWC Part #	No. of Conductors	Overall Jacket (Mils)	Nom. Diam. (Inches)	Approx. Net Wt. (lbs./1000 ft.)	Copper Weight (lbs./1000 ft.)
USA14-02XLPCPETC	2	45	.23 x.37	65	25
USA14-03XLPCPETC	3	45	.39	90	40
USA14-03WGXLPCPETC	3+ Grnd	45	.39	109	53
USA14-04XLPCPETC	4	45	.43	113	53
USA14-05XLPCPETC	5	45	.47	137	66
USA14-07XLPCPETC	7	45	.51	180	93
USA14-09XLPCPETC	9	60	.63	250	119
USA14-10XLPCPETC	10	60	.69	270	130
USA14-12XLPCPETC	12	60	.70	310	159
USA14-16XLPCPETC	16	60	.78	400	208
USA14-19XLPCPETC	19	60	.82	460	252
USA14-20XLPCPETC	20	80	.90	525	260
USA14-25XLPCPETC	25	80	1.00	640	323
USA14-37XLPCPETC	37	80	1.14	890	490

1-800-880-9473
In Stock for Same-Day Immediate Shipment

MULTI CONDUCTOR CABLES (12AWG)
FRXLP/CPE TYPE TC-ER CONTROL CABLE 600V



- ***Multi-Conductor***
- ***FR-XLP***
- ***CPE***
- ***Type TC-ER***
- ***600V***

PRODUCT CONSTRUCTION

Conductor: 12 AWG fully annealed, stranded, tinned copper per ASTM B33. Class B stranding per ASTM B8.
Insulation: Flame-retardant Cross-linked Polyethylene (XLP). Color-coded per ICEA Method 1, Table E2 (does not include white or green).
Jacket: Lead-free Chlorinated Polyethylene (CPE).

APPLICATIONS

In free air, raceways or direct burial. In wet or dry locations. For use in Class 1, Division 2 industrial hazardous locations For use in Class 1, Division 2 industrial hazardous locations per NEC Article 501 and Class 1 circuits per NEC.

FEATURES

Rated at 90ºC wet or dry. Excellent physical, thermal and electrical properties. Excellent resistance to moisture and flame. Sunlight- and weather-resistant. Meets cold bend test at -35ºC.

COMPLIANCES

Industry: UL 44 Type XHHW-2. UL 1277 Type TC. UL 1581. ICEA S-73-532/NEMA WC57.
Flame Test: UL 1581/UL 2556 VW-1. UL 1685 Vertical Flame Test. IEEE 383. IEEE 1202. CSA FT4. ICEA T-29-520.
Other: EPA 40 CFR, Part 261, for leachable lead content per TCLP. OSHA acceptable.

#12 AWG-7 Strand					
USAWC Part #	No. of Conductors	Overall Jacket (Mils)	Nom. Diam. (Inches)	Approx. Net Wt. (lbs./1000 ft.)	Copper Weight (lbs./1000 ft.)
USA12-02XLPCPETC	2	45	.25x.41	85	41
USA12-03XLPCPETC	3	45	.44	120	65
USA12-04XLPCPETC	4	45	.48	154	86
USA12-05XLPCPETC	5	45	.53	190	108
USA12-07XLPCPETC	7	60	.60	265	150
USA12-09XLPCPETC	9	60	.70	340	193
USA12-10XLPCPETC	10	60	.77	370	210
USA12-12XLPCPETC	12	60	.79	430	258
USA12-16XLPCPETC	16	80	.92	570	336
USA12-19XLPCPETC	19	80	.96	675	403
USA12-20XLPCPETC	20	80	1.01	710	420
USA12-25XLPCPETC	25	80	1.12	890	515
USA12-37XLPCPETC	37	80	1.28	1310	741

Notes: 1. All cables available with bare or covered grounding indicator.
2. Standard color coding is ICEA Method E-2 for NEC applications per ICEA S-73-532. This color coding method omits white and green from the color sequence. A white or green conductor can be supplied on request, Method E-1.

MULTI CONDUCTOR CABLES (10AWG)
FRXLP/CPE TYPE TC-ER CONTROL CABLE 600V



- ***Multi-Conductor***
- ***FR-XLP***
- ***CPE***
- ***Type TC-ER***
- ***600V***

PRODUCT CONSTRUCTION

Conductor: 10 AWG fully annealed, stranded, tinned copper per ASTM B33. Class B stranding per ASTM B8.
Insulation: Flame-retardant Cross-linked Polyethylene (XLP). Color-coded per ICEA Method 1, Table E2 (does not include white or green).
Jacket: Lead-free Chlorinated Polyethylene (CPE).

APPLICATIONS

In free air, raceways or direct burial. In wet or dry locations. For use in Class 1, Division 2 industrial hazardous locations For use in Class 1, Division 2 industrial hazardous locations in accordance with the NEC for three or more conductors.

FEATURES

Rated at 90ºC wet or dry. Excellent physical, thermal and electrical properties. Excellent resistance to moisture and flame. Sunlight- and weather-resistant. Meets cold bend test at -35ºC.

COMPLIANCES

Industry: UL 44 Type XHHW-2. UL 1277 Type TC. UL 1581. ICEA S-73-532/NEMA WC57.
Flame Test: UL 1581/UL 2556 VW-1. UL 1685 Vertical Flame Test. IEEE 383. IEEE 1202. CSA FT4. ICEA T-29-520.
Other: EPA 40 CFR, Part 261, for leachable lead content per TCLP. OSHA acceptable.

#10 AWG-7 Strand					
USAWC Part #	No. of Conductors	Overall Jacket (Mils)	Nom. Diam. (Inches)	Approx. Net Wt. (lbs./1000 ft.)	Copper Weight (lbs./1000 ft.)
USA10-02XLPCPETC	2	45	.28 x.46	117	67
USA10-03XLPCPETC	3	45	.49	167	101
USA10-04XLPCPETC	4	60	.57	230	135
USA10-05XLPCPETC	5	60	.62	280	167
USA10-07XLPCPETC	7	60	.67	370	234
USA10-09XLPCPETC	9	60	.79	455	295
USA10-10XLPCPETC	10	80	.90	550	320
USA10-12XLPCPETC	12	80	.93	640	402
USA10-16XLPCPETC	16	80	1.03	820	512
USA10-19XLPCPETC	19	80	1.08	965	608
USA10-20XLPCPETC	20	80	1.14	1010	640
USA10-25XLPCPETC	25	80	1.26	1235	800
USA10-37XLPCPETC	37	80	1.44	1775	1184

Notes: 1. All cables available with bare or covered grounding indicator.
2. Standard color coding is ICEA Method E-2 for NEC applications per ICEA S-73-532. This color coding method omits white and green from the color sequence. A white or green conductor can be supplied on request, Method E-1.

1-800-880-9473
In Stock for Same-Day Immediate Shipment

MULTI CONDUCTOR CABLES
FRXLP/CPE TYPE TC-ER POWER CABLE 600V (3C)



- *3C w/Ground*
- *FR-XLP*
- *CPE*
- *Type TC-ER*
- *600V*

PRODUCT CONSTRUCTION
Conductor: 8 AWG through 1000 kcmil tinned, annealed copper per ASTM B33. Class B stranding per ASTM B8.
Insulation: Flame-retardant Cross-linked Polyethylene (XLPE). Color-coded per ICEA Method 4; individual conductors colored black with conductor number surface printed in contrasting ink.
Jacket: Lead-free Chlorinated Polyethylene (CPE).

APPLICATIONS
In free air, raceways or direct burial. In wet or dry locations. For use in Class 1, Division 2 industrial hazardous locations per NEC Article 501 and Class 1 circuits per NEC. Permitted for Exposed Run (ER) use in accordance with NEC for 2 AWG and larger.

FEATURES
Rated at 90ºC wet or dry. Excellent physical, thermal and electrical properties. Excellent resistance to moisture and flame. Sunlight- and weather-resistant. Meets cold bend test at -35ºC. Meets crush and impact requirements of Type MC Cable for 2AWG and larger.

COMPLIANCES
Industry: UL 44 Type XHHW-2. UL 1277 Type TC-ER for 2 AWG and larger. UL 1581. ICEA S-95-658/NEMA WC70.
Flame Test: UL 1581/UL 2556 VW-1. UL 1685 Vertical Flame Test. IEEE 383. IEEE 1202. CSA FT4. ICEA T-29-520.
Other: EPA 40 CFR, Part 261, for leachable lead content per TCLP. OSHA acceptable.

Three Conductors With Grounding Conductor

USAWC Part #	Size AWG or kcmil	No. of Strands	Thickness in Mils		Nominal Diameter (Inches)	Grounding Conductor Size (AWG)	Approx. Net Wt. (lbs./1000 ft.)	Copper Weight (lbs./1000 ft.)	Ampacity*	
			Insulation	Jacket					90°C	75°C
USA10-03XLPGCPETC	10	7	30	45	.45	10	230	135	40	30
USA8-03XLPGCPETC	8	7	45	60	.66	10	335	190	55	50
USA6-03XLPGCPETC	6	7	45	60	.74	8	475	301	75	65
USA4-03XLPGCPETC	4	7	45	80	.88	8	700	448	95	85
USA2-03XLPGCPETC	2	7	45	80	1.00	6	1020	716	130	115
USA1-03XLPGCPETC	1	19	55	80	1.13	6	1260	872	150	130
USA1/0-03XLPGCPETC	1/0	19	55	80	1.22	6	1520	1081	170	150
USA2/0-03XLPGCPETC	2/0	19	55	80	1.31	6	1825	1341	195	175
USA3/0-03XLPGCPETC	3/0	19	55	80	1.42	4	2210	1717	225	200
USA4/0-03XLPGCPETC	4/0	19	55	80	1.55	4	2690	2132	260	230
USA250-03XLPGCPETC	250	37	65	110	1.76	4	3265	2494	290	255
USA350-03XLPGCPETC	350	37	65	110	1.98	3	4465	3474	350	310
USA500-03XLPGCPETC	500	37	65	110	2.26	2	6100	4938	430	380
USA750-03XLPGCPETC	750	61	80	110	2.71	1	9060	7206	535	475
USA1000-03XPGCPETC	1000	61	80	140	3.10	1/0	11770	9590	615	545

*AMPACITY in accordance with the NEC for cables in uncovered cable tray without maintained spacing and for cables in raceway or directly buried; 90˚C conductor temperature for dry locations, 75˚C conductor temperature for wet locations, 30˚C ambient temperature.
NOTE: Grounding conductor per UL Standard 1277 for Type TC Tray Cable.

MULTI CONDUCTOR CABLES
FRXLP/CPE TYPE TC-ER POWER CABLE 600V (4C)



- *4C w/Ground*
- *FR-XLP*
- *CPE*
- *Type TC-ER*
- *600V*

PRODUCT CONSTRUCTION
Conductor: 8 AWG through 750 kcmil tinned, annealed copper per ASTM B33. Class B stranding per ASTM B8.
Insulation: Flame-retardant Cross-linked Polyethylene (XLPE). Color-coded per ICEA Method 4; individual conductors colored black with conductor number surface printed in contrasting ink.
Jacket: Lead-free Chlorinated Polyethylene (CPE).

APPLICATIONS
In free air, raceways or direct burial. In wet or dry locations. For use in Class 1, Division 2 industrial hazardous locations per NEC Article 501 and Class 1 circuits per NEC. Permitted for Exposed Run (ER).

FEATURES
Rated at 90ºC wet or dry. Excellent physical, thermal and electrical properties. Excellent resistance to moisture and flame. Sunlight- and weather-resistant. Meets cold bend test at -35ºC. Meets crush and impact requirements of Type MC Cable for 2AWG and larger.

COMPLIANCES
Industry: UL 44 Type XHHW-2. UL 1277 Type TC-ER for 2 AWG and larger. UL 1581. ICEA S-95-658/NEMA WC70.
Flame Test: UL 1581/UL 2556 VW-1. UL 1685 Vertical Flame Test. IEEE 383. IEEE 1202. CSA FT4. ICEA T-29-520.
Other: EPA 40 CFR, Part 261, for leachable lead content per TCLP. OSHA acceptable.

Four Conductors With Grounding Conductor

USAWC Part #	Size AWG or kcmil	No. of Strands	Thickness in Mils		Nominal Diameter (Inches)	Grounding Conductor Size (AWG)	Approx. Net Wt. (lbs./1000 ft.)	Copper Weight (lbs./1000 ft.)	Ampacity*	
			Insulation	Jacket					90°C	75°C
USA8-04XLPGCPETC	8	7	45	60	.71	10	385	242	55	50
USA6-04XLPGCPETC	6	7	45	60	.79	8	558	384	75	65
USA4-04XLPGCPETC	4	7	45	80	.95	8	820	578	95	85
USA2-04XLPGCPETC	2	7	45	80	1.10	6	1214	919	130	115
USA1-04XLPGCPETC	1	19	55	80	1.24	6	1704	1136	150	130
USA1/0-04XLPGCPETC	1/0	19	55	80	1.34	6	1825	1413	170	150
USA2/0-04XLPGCPETC	2/0	19	55	80	1.45	6	2223	1760	195	175
USA3/0-04XLPGCPETC	3/0	19	55	80	1.57	4	3123	2245	225	200
USA4/0-04XLPGCPETC	4/0	19	55	80	1.77	4	3444	2796	260	230
USA250-04XLPGCPETC	250	37	65	110	1.93	4	4048	3282	290	255
USA350-04XLPGCPETC	350	37	65	110	2.18	3	5470	4577	350	310
USA500-04XLPGCPETC	500	37	65	110	2.48	2	7579	6509	430	380
USA750-04XLPGCPETC	750	61	80	110	3.12	1	11746	9522	535	475

*AMPACITY in accordance with the NEC for cables in uncovered cable tray without maintained spacing and for cables in raceway or directly buried; 90˚C conductor temperature for dry locations, 75˚C conductor temperature for wet locations, 30˚C ambient temperature.
NOTE: Grounding conductor per UL Standard 1277 for Type TC Tray Cable.

1-800-880-9473
In Stock for Same-Day Immediate Shipment

LOW VOLTAGE MULTI CONDUCTOR 20/10 UTLITY CONTROL PE/PVC CONTROL CABLE 600V (10AWG)



- *Multi-Conductor*
- *PE/PVC*
- *PVC*
- *20/10 Control*
- *600V*

PRODUCT CONSTRUCTION
Conductor: 10 AWG. Bare, annealed copper per ASTM B3 and B8, concentric 7 strand. Concentric 19 strand available.
Insulation: 20 mils transparent, linear, low-density polyethylene
Jacket: (Conductor) 10 mils color-coded PVC; (Overall) black direct burial PVC with thickness per ICEA S-73-532

APPLICATIONS
For use as a general control cable for conveying signals between devices interfaced daily with the electrical power system. Suitable for open air dicuts or conduit, tray and direct burial installation with a maximum voltage of 600V and operating temperature of 75°.

FEATURES
Polyethylene insulated, PVC jacketed conductors cabled together with an overal PVC jacket. Lead-free, flame-retardant and sunlight-resistant jacket.

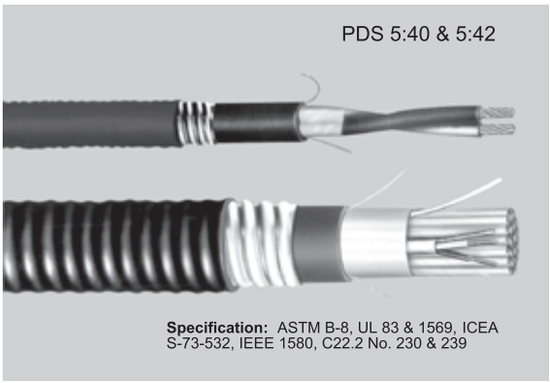
COMPLIANCES
ICEA S-73-532

#10 AWG-7 Strand					
USAWC Part #	Number of Conductors	Overall PVC Jacket Mils	Nom. Diam. Inches	Weight lbs./1000 ft Net	Weight lbs./1000 ft Copper
USA10-02 20/10	2 Flat	45	.28 x .46	115	64
USA10-03 20/10	3	45	.49	165	97
USA10-04 20/10	4	60	.57	230	129
USA10-05 20/10	5	60	.62	280	162
USA10-06 20/10	6	60	.67	320	192
USA10-07 20/10	7	60	.67	355	227
USA10-08 20/10	8	60	.73	415	256
USA10-09 20/10	9	60	.79	475	292
USA10-10 20/10	10	80	.89	535	320
USA10-11 20/10	11	80	.89	580	352
USA10-12 20/10	12	80	.92	615	389
USA10-13 20/10	13	80	.94	670	416
USA10-14 20/10	14	80	.97	710	448
USA10-15 20/10	15	80	1.02	760	480
USA10-16 20/10	16	80	1.02	800	512
USA10-17 20/10	17	80	1.07	870	544
USA10-18 20/10	18	80	1.07	895	576
USA10-19 20/10	19	80	1.07	920	616
USA10-20 20/10	20	80	1.13	980	640
USA10-23 20/10	23	80	1.18	1125	736
USA10-25 20/10	25	80	1.26	1250	800
USA10-27 20/10	27	80	1.28	1330	864
USA10-29 20/10	29	80	1.30	1370	928
USA10-31 20/10	31	80	1.36	1510	992
USA10-32 20/10	32	80	1.38	1565	1024
USA10-37 20/10	37	80	1.44	1755	1184

*Dimensions and weights are nominal; subject to industry tolerances

ALSO AVAILABLE IN TWO DIFFERENT SHIELDING TYPES of ALUMINUM MYLAR TAPE SHIELD or 5-MIL COPPER TAPE SHIELD

C-L-X INSTRUMENTATION TYPE MC-HL P-OS 600V
C-L-X INSTRUMENTATION TYPE MC-HL SP-OS 600V



Specification: ASTM B-8, UL 83 & 1569, ICEA S-73-532, IEEE 1580, C22.2 No. 230 & 239

C-L-X OKOSEAL-N TYPE P-OS/SP-OS Cable 600V
UL Type MC-HL, FOR CT USE, SUN RES
cUL Type ACIC-TC

UL and ABS listed as Marine Shipboard Cable (CLXM-CWCMC)
600/1000V

Construction: Stranded copper conductors, Okoseal insulation with nylon covering on primaries, color coded, twisted into pair or triad, or groups of pairs or triads, numeric print group identification, aluminum/polyester shield and coated stranded copper drain wire over each group with 100% isolation between group shields, multiple groups assembled, aluminum/polyester shield and coated stranded copper drain wire overall, rip cord, Okoseal inner jacket with continuously welded and corrugated C-L-X sheath, with Okoseal jacket.
Pairs: Black/white and numbered color code. Triads: Black/white/red and numbered color code.

Conductor Temperature: 90°C wet or dry
Sizes: #16 AWG
Application: For use on Class 1 Remote-Control and Signaling circuits; where a 600V rated cable is desired; for control, signal, and communication circuits; indoors or outdoors, in cable trays, in raceways, direct burial, supported by a messenger in outdoor locations. Suitable for Class I, Division 2 or Class II, Division 2 as well as Class I, Class II, and Class III, Division 1 and division 2 hazardous locations. Listed by the American Bureau of Shipping (ABS) as CWCMC-MC-HL. Meets IEEE 383-74 and IEEE 1202 vertical tray flame tests. Also, passes 210,000 BTU vertical tray flame test per ICEA T-29-520. cUL listed ACIC-TC.

Single Pair and Triad Cables P-OS

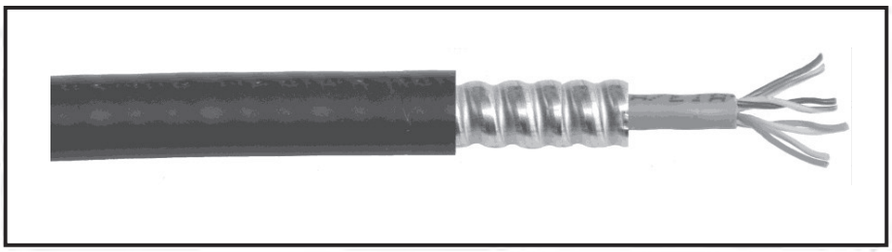
Catalog Number	Conductor Size AWG (Strands)	Number of Pairs	Number of Triads	Insulation Thickness-mils	Inner Jacket Thickness-mils	C-L-X O.D. (In.)	Outer Jacket Thickness-mils	Approx. O.D.-In.	Approx. Net Wt. (lbs/M')
564-60-3401	16(7X)	1		15/8	66	0.53	50	0.64	174
564-65-3401	16(7X)		1	15/8	58	0.53	50	0.64	182

Multi-Pair and Triad Cables SP-OS

Catalog Number	Conductor Size AWG (Strands)	Number of Pairs	Number of Triads	Insulation Thickness-mils	Inner Jacket Thickness-mils	C-L-X O.D. (In.)	Outer Jacket Thickness-mils	Approx. O.D.-In.	Approx. Net Wt. (lbs/M')
561-60-3402	16(7X)	2		15/4	40	0.67	50	0.76	234
561-60-3404	16(7X)	4		15/4	50	0.80	50	0.91	335
561-60-3408	16(7X)	8		15/4	50	0.93	50	1.04	492
561-60-3412	16(7X)	12		15/4	50	1.11	50	1.22	674
561-60-3424	16(7X)	24		15/4	50	1.42	50	1.53	1118
561-60-3436	16(7X)	36		15/4	50	1.69	60	1.82	1586
561-65-3404	16(7X)		4	15/4	50	0.84	50	0.95	395
561-65-3408	16(7X)		8	15/4	50	1.06	50	1.17	637
561-65-3412	16(7X)		12	15/4	50	1.29	50	1.40	863

1-800-880-9473
In Stock for Same-Day Immediate Shipment

CAT 6E CLX ARMORED CABLE TYPE MC
PE/PVC CAT 6E ARMOR CCS DATA CABLE BLUE



23AWG 4PR CAT 6E
PE/PVC
Alum. Sheath Armor
FR-PVC Jacket

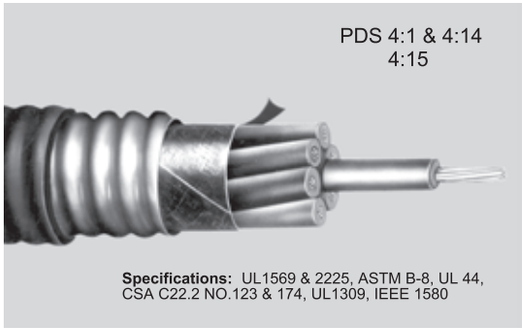
PRODUCT CONSTRUCTION
Conductor: 23 AWG solid bare copper
Dielectric: Solid PE
Assembly: Each pair has different lay length for crosstalk prevention and rip cord added.
Inner Jacket: PVC
Armor: A close-fitting, impervious, continuous, aluminum sheath
Outer Jacket: Blue FR-PVC

CLASSIFICATIONS
UL listed as Type MC, according to NEC Article 300, and for use in Class I, Division II, hazardous locations according to NEC Article 501.10 (B).

FEATURES
Includes a protective, continuous, corrugated aluminum sheath and an overall PVC jacket suitable for direct burial.

USAWC Part #	Conductor	Armor Thickness (inches)	Cable Diameter Under Jacket (Inches)	Jacket Thickness (Inches)	Overall Cable Diameter (Inches)
USA23-04CAT6CCS	23/4PR Cat 6E	0.025 nom.	0.440 nom.	0.050 nom.	0.540 nom.

C-L-X MULTI-CONDUCTOR CONTROL CABLE 600V TYPE MC



Specifications: UL1569 & 2225, ASTM B-8, UL 44, CSA C22.2 NO.123 & 174, UL1309, IEEE 1580

C-L-X (XHHW-2) Control Cable 600/1000V UL Type MC, FOR CT USE, SUN RES CSA Type RA90, FT4, HL

UL & ABS listed as Marine Shipboard Cable Type, (CLXM-CWCMC) 600/1000V, VFD Applications

Construction: Two or more stranded copper conductors, sizes #8 AWG and larger are compact stranded, X-Olene insulated, color coded conductors, ground wire (MC-HL only), fillers (as necessary), binder tape over core, corrugated aluminum C-L-X sheath, with Okoseal jacket overall.
Conductor Temperature: 90°C dry or wet * **Sizes:** #14 AWG - #10 AWG

Application MC & MC-HL: Economical and versatile alternate to a conduit system; for services, feeders, and branch circuits in industrial and commercial applications; power, lighting, control and signal circuits; indoors or outdoors, in wet or dry locations, direct burial, in cable tray, in raceways, as open runs of cable, and as aerial cable on a messenger. Recommended for VFD/PWM drives (3/C with 3 grounds). Type MC-HL are listed for use in Class I, Division 1 hazardous locations. CSA Type HL cables may be used in Zone 1 and 2 locations, Zone 20, 21, and 22 locations, and Classes I, II, and III, Divisions 1 and 2 locations per the CEC Section 18 and Appendix J.

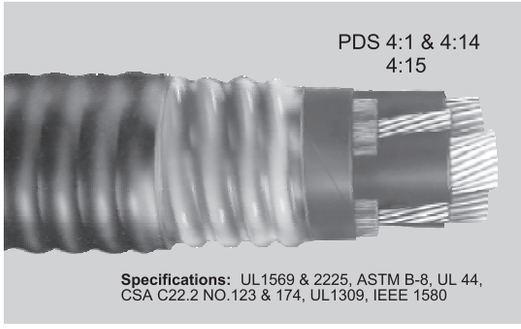
TYPE MC CONTROL CABLE (Does not include grounding conductor)

Catalog Number	Cdr Size AWG (Strands)	Number of Conductors	Insulation Thickness-mils	C-L-X O.D.-Inches	Jacket Thickness-mils	Approx. O.D.-In.	Approx. Net Wt. (lbs/M')
546-31-3002	14(7X)	2	30	0.49	50	0.60	141
546-31-3003	14(7X)	3	30	0.49	50	0.60	153
546-31-3004	14(7X)	4	30	0.53	50	0.64	181
546-31-3005	14(7X)	5	30	0.58	50	0.69	210
546-31-3007	14(7X)	7	30	0.62	50	0.73	254
546-31-3009	14(7X)	9	30	0.71	50	0.82	308
546-31-3012	14(7X)	12	30	0.80	50	0.91	381
546-31-3019	14(7X)	19	30	0.93	50	1.04	537
546-31-3037	14(7X)	37	30	1.24	50	1.35	946
546-31-3082	12(7X)	2	30	0.53	50	0.64	168
546-31-3083	12(7X)	3	30	0.53	50	0.64	189
546-31-3084	12(7X)	4	30	0.58	50	0.69	226
546-31-3085	12(7X)	5	30	0.62	50	0.73	262
546-31-3087	12(7X)	7	30	0.67	50	0.78	324
546-31-3089	12(7X)	9	30	0.80	50	0.91	405
546-31-3092	12(7X)	12	30	0.89	50	1.00	503
546-31-3099	12(7X)	19	30	1.02	50	1.13	721
546-31-3117	12(7X)	37	30	1.37	50	1.48	1301
546-31-3162	10(7X)	2	30	0.58	50	0.69	207
546-31-3163	10(7X)	3	30	0.58	50	0.69	238
546-31-3164	10(7X)	4	30	0.67	50	0.78	297
546-31-3167	10(7X)	7	30	0.75	50	0.86	436

Color coding per ICEA method 1, Table E-2

1-800-880-9473
In Stock for Same-Day Immediate Shipment

C-L-X MULTI-CONDUCTOR CONTROL CABLE 600V TYPE MC-HL



Specifications: UL1569 & 2225, ASTM B-8, UL 44, CSA C22.2 NO.123 & 174, UL1309, IEEE 1580

C-L-X (XHHW-2) Control Cable 600/1000V UL Type MC-HL, FOR CT USE, SUN RES CSA Type RA90, FT4, HL

UL & ABS listed as Marine Shipboard Cable Type, (CLXM-CWCMC) 600/1000V, VFD Applications

Construction: Two or more stranded copper conductors, sizes #8 AWG and larger are compact stranded, X-Olene insulated, color coded conductors, ground wire (MC-HL only), fillers (as necessary), binder tape over core, corrugated aluminum C-L-X sheath, with Okoseal jacket overall.
Conductor Temperature: 90°C dry or wet * **Sizes:** #14 AWG - #10 AWG

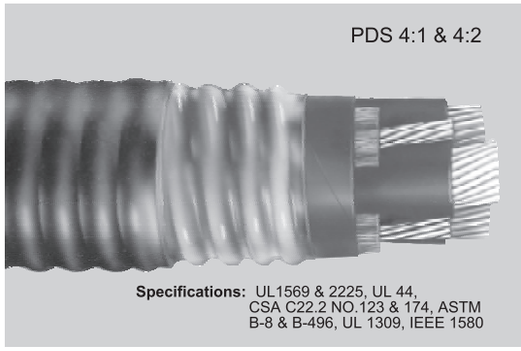
Application MC & MC-HL: Economical and versatile alternate to a conduit system; for services, feeders, and branch circuits in industrial and commercial applications; power, lighting, control and signal circuits; indoors or outdoors, in wet or dry locations, direct burial, in cable tray, in raceways, as open runs of cable, and as aerial cable on a messenger. Recommended for VFD/PWM drives (3/C with 3 grounds). Type MC-HL are listed for use in Class I, Division 1 hazardous locations. CSA Type HL cables may be used in Zone 1 and 2 locations, Zone 20, 21, and 22 locations, and Classes I, II, and III, Divisions 1 and 2 locations per the CEC Section 18 and Appendix J.

TYPE MC-HL CONTROL CABLE (Includes grounding conductor(s))

Catalog Number	Cdr Size AWG (Strands)	Number of Ungrounded Conductors	Grounding Conductor size AWG	Insulation Thickness-mils	C-L-X O.D.-Inches	Jacket Thickness-mils	Approx. O.D.-In.	Approx. Net Wt. (lbs/M')
546-31-3402	14(7X)	2	#14 Green Insuated	30	0.49	50	0.60	163
546-31-3403	14(7X)	3	3 x 18 Bare	30	0.53	50	0.64	189
546-31-3404	14(7X)	4	3 x 18 Bare	30	0.58	50	0.69	222
546-31-3406	14(7X)	6	#14 Green Insulated	30	0.62	50	0.73	267
546-31-3408	14(7X)	8	#14 Green Insulated	30	0.71	50	0.82	321
546-31-3411	14(7X)	11	#14 Green Insulated	30	0.80	50	0.91	395
546-31-3418	14(7X)	18	#14 Green Insulated	30	0.93	50	1.04	554
546-31-3436	14(7X)	36	#14 Green Insulated	30	1.24	50	1.35	948
546-31-3452	12(7X)	2	#12 Green Insulated	30	0.53	50	0.64	200
546-31-3453	12(7X)	3	3 x 16 Bare	30	0.58	50	0.69	239
546-31-3454	12(7X)	4	3 x 16 Bare	30	0.67	50	0.77	286
546-31-3456	12(7X)	6	#12 Green Insulated	30	0.67	50	0.78	338
546-31-3458	12(7X)	8	#12 Green Insulated	30	0.80	50	0.91	426
546-31-3461	12(7X)	11	#12 Green Insulated	30	0.89	50	1.00	519
546-31-3468	12(7X)	18	#12 Green Insulated	30	1.02	50	1.13	739
546-31-3486	12(7X)	36	#12 Green Insulated	30	1.37	50	1.48	1302
546-31-3502	10(7X)	2	#10 Green Insulated	30	0.62	50	0.73	251
546-31-3503	10(7X)	3	3 x 14 Bare	30	0.62	50	0.73	300
546-31-3504	10(7X)	4	3 x 14 Bare	30	0.67	50	0.78	348
546-31-3506	10(7X)	6	#10 Green Insulated	30	0.75	50	0.86	451
546-31-3508	10(7X)	8	#10 Green Insulated	30	0.89	50	1.00	568
546-31-3511	10(7X)	11	#10 Green Insulated	30	0.97	50	1.08	704

Color Coding per ICEA Method 1, Table E-2 (for non-grounding conductors)

C-L-X MULTI-CONDUCTOR POWER CABLE 600V TYPE MC-HL



Specifications: UL1569 & 2225, UL 44, CSA C22.2 NO.123 & 174, ASTM B-8 & B-496, UL 1309, IEEE 1580

C-L-X (XHHW-2) 600/1000V
UL Type MC-HL FOR CT USE, SUN RES
CSA Type RA90, FT4, HL

UL and ABS listed as Marine Shipboard Cable Type, CLXM-CWCMC 600/1000V, VFD Applications

Construction: Two or more stranded copper conductors, sizes #8 AWG and larger are compact stranded, X-Olene insulated, color coded conductors, ground wire, fillers, binder tape over core, corrugated aluminum C-L-X sheath, with Okoseal jacket overall.

Conductor Temperature: 90°C dry or wet
Sizes: #14 AWG - 750 kcmil

Application: Economical and versatile alternate to a conduit system; for services, feeders, and branch circuits in industrial and commercial applications; power, lighting, control and signal circuits; indoors or outdoors, in wet or dry locations, direct burial, in cable tray, in raceways, as open runs of cable, and as aerial cable on a messenger. Recommended for VFD/PWM drives (3/C with 3 grounds). CSA Type HL cables may be used in Zone 1 and 2 locations, Zone 20, 21, and 22 locations, and Classes I, II, and III, Divisions 1 and 2 locations per the CEC Section 18 and Appendix J.

POWER CABLES

Catalog Number	Conductor Size AWG or kcmil (Strands)*	Number of Conductors	Grounding Conductor* Size AWG	Insulation Thickness-mils	C-L-X O.D. - Inches	Jacket Thickness-mils	Approx. O.D.-Inches	Approx. Net Wt. (lbs/M')
546-31-3403	14(7X)	3	3 x 18	30	0.53	50	0.64	160
546-31-3404	14(7X)	4	3 x 18	30	0.58	50	0.69	222
546-31-3453	12(7X)	3	3 x 16	30	0.58	50	0.69	239
546-31-3454	12(7X)	4	3 x 16	30	0.67	50	0.77	286
546-31-3503	10(7X)	3	3 x 14	30	0.62	50	0.73	300
546-31-3504	10(7X)	4	3 x 14	30	0.67	50	0.78	348
571-31-3190	8(7X)	3	3 x 14	45	0.71	50	0.82	385
571-31-3263	8(7X)	4	10	45	0.80	50	0.91	465
571-31-3191	6(7X)	3	3 x 12	45	0.80	50	0.95	525
571-31-3270	6(7X)	4	8	45	0.89	50	0.99	630
571-31-3200	4(7X)	3	3 x 12	45	0.89	50	0.99	704
571-31-3272	4(7X)	4	8	45	0.97	50	1.08	845
571-31-3204	2(7X)	3	3 x 10	45	1.02	50	1.13	995
571-31-3276	2(7X)	4	6	45	1.15	50	1.26	1245
571-31-3213	1/0(19X)	3	3 x 10	55	1.24	50	1.35	1470
571-31-3216	2/0(19X)	3	3 x 10	55	1.34	50	1.45	1770
571-31-3289	2/0(19X)	4	6	55	1.51	60	1.65	2310
571-31-3218	3/0(19X)	3	3 x 8	55	1.47	50	1.58	2180
571-31-3224	4/0(19X)	3	3 x 8	55	1.60	60	1.73	2675
571-31-3296	4/0(19X)	4	4	55	1.78	60	1.91	3430
571-31-3228	250(37X)	3	3 x 8	65	1.74	60	1.87	3140
571-31-3236	350(37X)	3	3 x 7	65	1.96	60	2.09	4210
571-31-3308	350(37X)	4	3	65	2.19	60	2.32	5440
571-31-3244	500(37X)	3	3 x 6	65	2.28	75	2.44	5930
571-31-3316	500(37X)	4	2	65	2.49	75	2.65	7570
571-31-3248	750(61X)	3	3 x 5	80	2.75	75	2.92	8700

COMPOSITE POWER & CONTROL CABLES

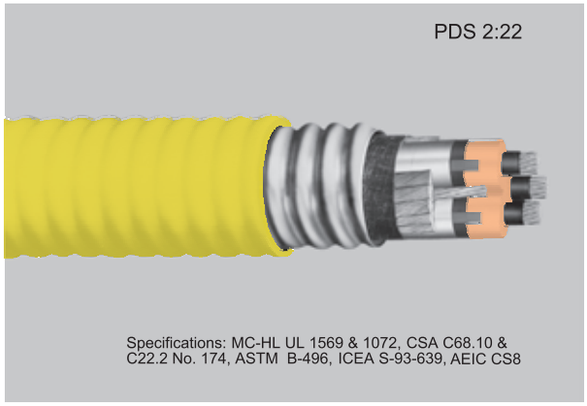
Catalog Number	Power Conductors* No. X Size	Insulation Thickness-mils	Control Conductors No. X Size	Insulation Thickness-mils	C-L-X O.D.-Inches	Grounding Conductor* No. X Size	Jacket Thickness-mils	Cable O.D.-Inches	Approx. Net Wt. (lbs/M')
546-31-3984	3 X 10	30	4 X 12	30	0.75	1 X 10	50	0.86	425
571-31-3657	3 X 8	45	4 X 12	30	0.89	1 X 10	50	1.00	530
571-31-3667	3 X 6	45	4 X 12	30	0.93	1 X 8	50	1.04	655
571-31-3677	3 X 4	45	4 X 12	30	0.97	1 X 8	50	1.08	810

* #8 and larger is compact round conductor

Conductor Identification: Surface Printing of Numbers and Colors per ICEA Method 3 - Sizes #8 AWG and larger
Sizes #10 and smaller Method 1, E-2

*Minimum Size UL Permits Partitioning of Grounding Conductor, grounds are bare.

C-L-X MEDIUM VOLTAGE MULTI CONDUCTOR CLX 5/8KV MV-105 MC-HL



Specifications: MC-HL UL 1569 & 1072, CSA C68.10 & C22.2 No. 174, ASTM B-496, ICEA S-93-639, AEIC CS8

OKOGUARD SHIELDED C-L-X 5/8kV
UL Type MV-105 or MC-HL FOR CT USE, SUN RES
CSA C68.10, FT4, SR, HL, LTGG (-40°C)

UL and ABS listed as Marine Shipboard Cable Type CLXM-CWCMC

5kV-133% INSULATION LEVEL, 8kV-100% Insulation Level, VFD Applications

Construction: Three compact stranded copper conductors, extruded semiconducting EPR strand screen, Okoguard EPR insulation, extruded semiconducting EPR insulation screen, phase identification strips, and copper shield tape with 12.5% nominal overlap over individual conductors, with 3 stranded copper grounding conductors, fillers and binder tape over the core, corrugated aluminum C-L-X sheath with yellow Okoseal jacket.

Conductor Temperature: 105°C

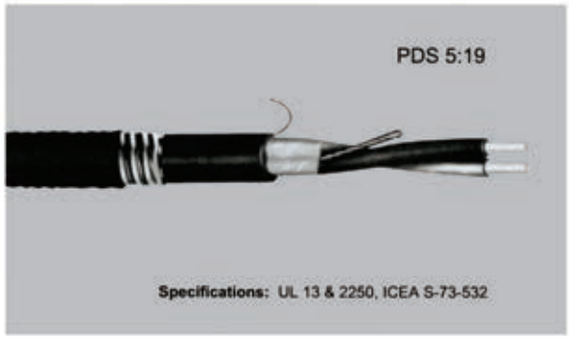
Sizes: #4 AWG - 500 kcmil

Application: Economical and versatile alternate to a conduit system; for services, feeders, and branch circuits in electric utility, industrial, and commercial applications; indoors or outdoors, in wet or dry locations, direct burial, in cable tray, in raceways, as open runs of cable, and as aerial cable on a messenger. Recommended for VFD/PWM drives (3/C with 3 grounds). CSA Type HL cables may be used in Zone 1 and 2 locations, Zone 20, 21, and 22 locations, and Classes I, II, and III, Divisions 1 and 2 locations per the CEC Section 18 and Appendix J.

Catalog Number	Conductor Size AWG or kcmil	Insulation Thickness -mils	Insulation O.D. Inches	Grounding Conductor* Size AWG	C-L-X O.D. (In.)	Jacket Thickness-mils	Approx. O.D.-Inches	Approx. Net Wt. (lbs/M')
571-22-3698	4	115	0.48	3 x 10	1.51	60	1.65	1398
571-22-3706	2	115	0.54	3 x 10	1.64	60	1.78	1732
571-22-3717	2/0	115	0.65	3 x 8	1.92	60	2.00	2616
571-22-3725	4/0	115	0.75	3 x 7	2.15	60	2.24	3613
571-22-3838	350	115	0.89	3 x 6	2.45	75	2.61	5328
571-22-3846	500	115	1.01	3 x 5	2.75	75	2.91	7095

*Minimum Size UL Permits Partitioning of Grounding Conductor

C-L-X THERMOCOUPLE TYPE P-OS 300V



C-L-X OKOSEAL TYPE P-OS THERMOCOUPLE UL Type ITC/PLTC Cable/300V Rated 105°C, For CT Use, Sun Res

Construction: Solid thermocouple alloys, Okoseal insulation, ASTM color coded, twisted into one pair aluminum/polyester shield and coated stranded copper drain wire, rip cord, inner flame retardant Okoseal jacket, corrugated aluminum C-L-X sheath, overall Okoseal jacket.

Sizes: #16 AWG

Application: Okonite Type C-L-X P-O-S (Pair-Overall Shield) Thermocouple Extension cables are designed for use as instrumentation and process control cables in ITC non-classified or labeled circuits up to 150 volts and 5 amps (750VA) and in Class 2 or 3 Power-Limited circuits where shielding against external interference is required; indoors or outdoors; in wet or dry location with conductor operating temperatures up to 105°C; in cable trays; in raceways; supported by a messenger wire; under raised floors. Suitable Class I, Division 2, Class II, Division 2, or Class III, Division 2 and Class I, Zone 2 hazardous locations. The C-L-X sheath provides physical protection against mechanical damage. It may be installed in both exposed and concealed work, secured to supports not greater than 6 feet apart. Meets UL 1581, IEEE 383-74 and IEEE 1202 vertical tray flame test. Also, passes 210,000 BTU vertical flame tray test per ICEA T-29-520.

300V C-L-X

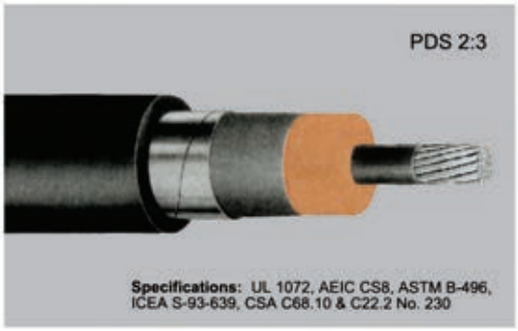
ASA/ISA TYPE	Catalog Number	Conductor Size AWG (Strands)	Number of Pairs	Insulation Thickness-mils	Inner Jacket Thickness-mils	C-L-X O.D. (in.)	Outer Jacket Thickness-mils	Approx. O.D.-In.	Approx. Net Wt. (lbs/M')
KX	584-20-3401	16(1X)	1	15	35	0.43	50	0.54	128

ANSI/ISA COLOR CODE

ANSI/ISA TYPE	EX		JX		KX		TX	
	Alloy	Color	Alloy	Color	Alloy	Color	Alloy	Color
Positive Wire	Chromel	Purple	Iron	White	Chrome	Yellow	Copper	Blue
Negative Wire	Constantan	Red	Constantan	Red	Alumel	Red	Constantan	Red
Outer Jacket Color	Purple		Black		Yellow		Blue	

1-800-880-9473
In Stock for Same-Day Immediate Shipment

MEDIUM VOLTAGE SINGLE CONDUCTOR POWER CABLES



Specifications: UL 1072, AEIC CS8, ASTM B-496, ICEA S-93-639, CSA C68.10 & C22.2 No. 230

OKOGUARD SHIELDED OKOSEAL 5/8kV UL Type MV-105, FOR CT USE, SUN RES CSA C68.10, FT4, LTGG (-40°C), SR, TC (1/0-350 kcmil), TC-ER (500-750 kcmil)

5kV-133% or 8kV-100% INSULATION LEVEL

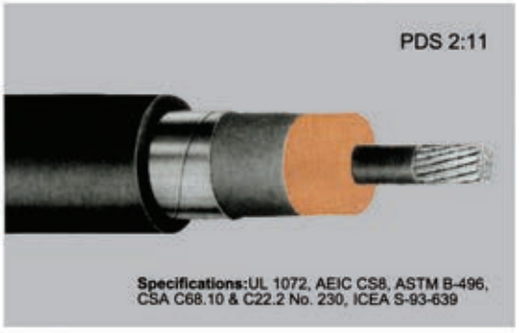
Construction: One Okopact® (compact stranded) copper conductor, extruded semiconducting EPR strand screen, Okoguard EPR insulation, extruded semiconducting EPR insulation screen, bare copper shielding tape with 25% minimum overlap, Okoseal jacket.

Conductor Temperature: 105°C

Sizes: 1/0 AWG - 750 kcmil

Application: Feeders and branch circuits in electric utility, industrial and commercial applications; may be used in wet or dry locations, in raceways, messenger supported wiring, and in underground ducts, direct buried (if installed in a system with a grounding conductor in close proximity) or messenger supported in industrial and electric utilities. Meets UL 1072, IEEE 383, and IEEE 1202. CSA C68.10 listed as FT4, LTGG (-40°C), SR (Sunlight Resistant), and C22.2 No. 230 TC or TC-ER rating.

Catalog Number	Conductor Size AWG or kcmil	Insulation Thickness-mils	Approx O.D. (in.) over: Insulation	Screen	Jacket Thickness-mils	Approx. O.D.-In.	Approx. Net WT. (lbs/M')
114-23-3824	1/0	115	0.61	0.67	60	0.81	615
114-23-3826	2/0	115	0.65	0.71	60	0.85	720
114-23-3832	4/0	115	0.75	0.81	80	0.99	1030
114-23-3834	250	115	0.80	0.86	80	1.05	1185
114-23-3838	350	115	0.89	0.95	80	1.14	1540
114-23-3846	500	115	1.01	1.07	80	1.26	2055
114-23-3873	750	115	1.19	1.25	80	1.43	2940



Specifications: UL 1072, AEIC CS8, ASTM B-496, CSA C68.10 & C22.2 No. 230, ICEA S-93-639

OKOGUARD SHIELDED OKOLON TS-CPE 15kV UL Type MV-105, FOR CT USE, SUN RES CSA C68.10, FT4, LTDD (-25°C), SR, TC

133% INSULATION LEVEL

Construction: One Okopact® (compact stranded) stranded copper conductor, extruded semiconducting EPR strand screen, Okoguard EPR insulation, extruded semiconducting EPR insulation screen, bare copper shielding tape with 25% minimum overlap, Okolon TS-CPE jacket.

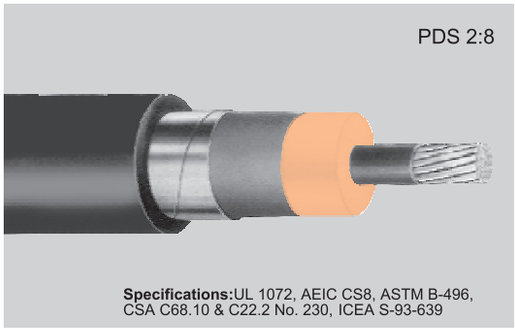
Conductor Temperature: 105°C

Sizes: 500-750 kcmil

Application: Feeders and branch circuits in electric utility, industrial and commercial applications; may be used in wet or dry locations, in raceways, and in underground ducts,direct buried (if installed in a system with a grounding conductor in close proximity) or messenger supported in industrial and electric utilities. Meets UL 1072, IEEE 383 and IEEE 1202. CSA C68.10 listed as FT4, LTDD (-25°C), SR (Sunlight Resistant), and C22.2 No. 230 TC rating.

Catalog Number	Conductor Size AWG or kcmil	Insulation Thickness-mils	Approx O.D. (in.) over: Insulation	Screen	Jacket Thickness-mils	Approx. O.D.-Inches	Approx. Net Wt. (lbs/M')
115-23-2131	500	220	1.22	1.28	80	1.49	2385
115-23-2135	750	220	1.40	1.46	80	1.66	3285

MEDIUM VOLTAGE SINGLE CONDUCTOR 15KV MV-105



Specifications: UL 1072, AEIC CS8, ASTM B-496, CSA C68.10 & C22.2 No. 230, ICEA S-93-639

***Not marked For CT Use, FT4, -40C, or CSA.**

OKOGUARD-SHIELDED OKOSEAL 15kV UL Type MV-105, FOR CT USE, SUN RES CSA C68.10, FT4, LTGG (-40°C), SR, TC (1/0-350 kcmil), TC-ER (500-1000 kcmil)

133% INSULATION LEVEL

Construction: One Okopact® (compact stranded) copper conductor, extruded semiconducting EPR strand screen, Okoguard EPR insulation, extruded semiconducting EPR insulation screen, copper shielding tape with 25% minimum overlap, Okoseal jacket.

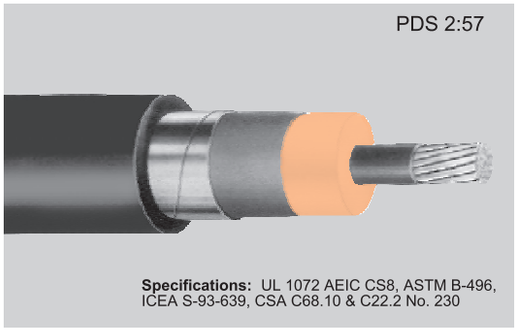
Conductor Temperature: 105°C

Sizes: #2 AWG - 1000 kcmil

Application: Feeders and branch circuits in electric utility, industrial and commercial applications; may be used in wet or dry locations, in raceways, messenger supported wiring, and in underground ducts, direct buried (if installed in a system with a grounding conductor in close proximity) or messenger supported in industrial and electric utilities. Meets UL 1072, IEEE 383, IEEE 1202 and CSA C68.10 listed as FT4, LTGG (-40°C), SR (Sunlight Resistant), and C22.2 No. 230 TC or TC-ER rating.

Catalog Number	Conductor Size AWG or kcmil	Insulation Thickness-mils	Approx O.D. (in.) over: Insulation	Screen	Jacket Thickness-mils	Approx. O.D.-Inches	Approx. Net Wt. (lbs/M')
115-23-3479*	2	220	0.76	0.81	80	0.99	682
115-23-3230	1/0	220	0.82	0.88	80	1.07	850
115-23-3232	2/0	220	0.86	0.92	80	1.11	970
115-23-3236	4/0	220	0.96	1.02	80	1.21	1280
115-23-3238	250	220	1.01	1.07	80	1.26	1435
115-23-3240	350	220	1.10	1.16	80	1.35	1810
115-23-3242	500	220	1.22	1.28	80	1.47	2350
115-23-3243	750	220	1.40	1.46	80	1.65	3240
115-23-3244	1000	220	1.54	1.60	110	1.86	4220

MEDIUM VOLTAGE SINGLE CONDUCTOR 35KV MV-105



Specifications: UL 1072 AEIC CS8, ASTM B-496, ICEA S-93-639, CSA C68.10 & C22.2 No. 230

OKOGUARD-SHIELDED OKOSEAL 35kV UL TYPE MV-105, FOR CT USE, SUN RES CSA C68.10, FT4, LTGG (-40°C), SR, TC (1/0-350 kcmil), TC-ER (500-750 kcmil)

133% INSULATION LEVEL

Construction: One Okopact® (compact stranded) copper conductor, extruded semiconducting EPR strand screen, Okoguard insulation, extruded semiconducting EPR insulation screen, copper shielding tape with 25% nominal overlap, Okoseal jacket.

Conductor Temperature: 105°C

Sizes: #1/0 AWG - 750 kcmil

Application: Feeders and branch circuits in electric utility, industrial and commercial applications; may be used in wet or dry locations, in raceways, messenger supported wiring, and in underground ducts, direct buried (if installed in a system with a grounding conductor in close proximity) or messenger supported in industrial and electric utilities. CSA C68.10 listed as FT1, LTDD (-25°C), SR (Sunlight Resistant), and C22.2 No. 230 TC or TC-ER rating.

Catalog Number	Conductor Size AWG or kcmil	Insulation Thickness-mils	Approx O.D. (in.) over: Insulation	Screen	Jacket Thickness-mils	Approx. O.D.-Inches	Approx. Net Wt. (lbs/M')
115-23-3402	1/0	345	1.09	1.15	80	1.34	1168
115-23-3409	4/0	345	1.23	1.29	80	1.48	1628
115-23-3440	500	345	1.48	1.54	80	1.73	2732
115-23-3422	1/0	420	1.25	1.31	80	1.50	1380
115-23-3426	2/0	420	1.29	1.35	80	1.54	1509
115-23-3439	4/0	420	1.39	1.45	80	1.64	1859
115-23-3446	350	420	1.53	1.59	110	1.84	2540
115-23-3750	500	420	1.63	1.69	110	1.94	3100
115-23-3751	750	420	1.82	1.90	110	2.13	4099

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MEDIUM VOLTAGE Multi Conductor Power Cable



Specifications: UL 1072, ASTM B-496 ICEA S-93-639, AEIC CS8, CSA C68.10 & C22.2 No. 230

OKOGUARD-SHIELDED OKOSEAL 5/8kV & 15kV
UL Type MV-105, SUN RES, FOR CT USE
CSA C68.10, FT4, SR, TC-ER, LTDD (-25°C)
(6-2/0 AWG), LTGG (-40°C) (4/0-500 kcmil)

5kV 133% & 8kV, 100%, and 15kV 133% INSULATION LEVEL

Construction: Three compact stranded copper conductors, extruded semiconducting EPR strand screen, Okoguard EPR insulation, extruded semiconducting insulation screen, phase identification strips (red, black, blue) and copper shield tape over individual conductors, with 12.5% nominal overlap, with one bare stranded copper grounding conductor, fillers, and binder tape over the core and covered with a black flame retardant PVC jacket (sizes 4/0 and larger, the jacket is our arctic grade PVC).

Conductor Temperature: 105°C

Sizes: #6 AWG - 500 kcmil

Application: For services, feeders, and branch circuits in electric utility, industrial, and commercial application; power lighting, control and signal circuits; indoors or outdoors, in wet or dry locations, direct burial, in cable tray, in raceways, as open runs of cable and as aerial cable on a messenger.

5/8kV	Catalog Number	Conductor Size AWG or kcmil	Insulation Thickness-mils	Insulation O.D. Inches	Grounding Conductor Size AWG	Jacket Thickness-mils	Approx. O.D. Inches	Approx.. Net Wt. (lbs/M')
	114-23-3630	6	115	0.44	6	80	1.29	1015
	114-23-3640	2	115	0.54	6	80	1.51	1560
	114-23-3648	2/0	115	0.65	4	110	1.80	2513
	114-23-3736	4/0	115	0.75	3	110	2.02	3455
	114-23-3772	350	115	0.89	2	110	2.33	5116
	114-23-3782	500	115	1.01	1	110	2.59	6799
15kV								
	115-23-3802	2	220	0.76	6	110	2.02	2280
	115-23-3806	2/0	220	0.87	4	110	2.26	3260
	115-23-3808	4/0	220	0.97	3	110	2.48	4285
	115-23-3812	350	220	1.12	2	140	2.85	6168
	115-23-3814	500	220	1.24	1	140	3.10	7895

CABLE MANAGEMENT SERVICES

As a Master Distributor of American-made specialty wire and cable, USAWC offer many different Cable Management programs to fit your jobsite needs for your industrial or utility project.

- **SPECIFICATION, CLARIFICATION AND INTERPRETATION** – We provide technical evaluation of your specifications and offer unbiased assistance to ensure materials meet expectations.

- **LOCK-IN COPPER** – Due to the uncertainty of Comex copper fluctuations , the purchase order can be firmed on the order date.

- **PREPURCHASE OF CABLE NEEDS** - Under the purchase order we acquire all cable items per your PO, ensuring delivery schedules are met on time without long factory delays . Cables are invoiced only when released to the job site.

- **PROJECT INVENTORY** – All wire and cable in stock will be inventoried on large bulk reels ready to cut and ship.

- **CUT CABLE TO SPECIFIC CIRCUIT LENGTHS** – Cables can be released on bulk reels or cut to your circuit schedule length, wrapped, and tagged with your reel identifying information. Our shipments ensure damage-free delivery to minimize freight claims.

- **INDOOR STORAGE** – Cables will be stored in a segregated warehouse area indoors at our facility.

- **REEL IDENTIFICATION** - Special metal tagging and labeling on each individual reel.

- **SAME DAY SHIPPING** – Releases typically ship same day or within 24–48 hours.

- **DOCUMENTATION AND REPORTING** – Detailed, up-to-the-minute analysis of your cable inventory ensures waste minimization and continuous product flow.

INDUSTRIES SERVED

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COLOR CODES

Table E1 Color Sequence

COND. NO.	BACKGROUND OR BASE COLOR	FIRST TRACER COLOR	SECOND TRACER COLOR	COND. NO.	BACKGROUND OR BASE COLOR	FIRST TRACER COLOR	SECOND TRACER COLOR
1	Black	-	-	20	Red	Green	-
2	White	-	-	21	Orange	Green	-
3	Red	-	-	22	Black	White	Red
4	Green	-	-	23	White	Black	Red
5	Orange	-	-	24	Red	Black	White
6	Blue	-	-	25	Green	Black	White
7	White	Black	-	26	Orange	Black	White
8	Red	Black	-	27	Blue	Black	White
9	Green	Black	-	28	Black	Red	Green
10	Orange	Black	-	29	White	Red	Green
11	Blue	Black	-	30	Red	Black	Green
12	Black	White	-	31	Green	Black	Orange
13	Red	White	-	32	Orange	Black	Green
14	Green	White	-	33	Blue	White	Orange
15	Blue	White	-	34	Black	White	Orange
16	Black	Red	-	35	White	Red	Orange
17	White	Red	-	36	Orange	White	Blue
18	Orange	Red	-	37	White	Red	Blue
19	Blue	Red	-				

Pair cables are black, white and numbered. Triad cables are black, white, red and numbered

Table E2 Color Sequence

COND. NO.	BACKGROUND OR BASE COLOR	TRACER COLOR		COND. NO.	BACKGROUND OR BASE COLOR	TRACER COLOR
1	Black	-		19	Orange	Blue
2	Red	-		20	Yellow	Blue
3	Blue	-		21	Brown	Blue
4	Orange	-		22	Black	Orange
5	Yellow	-		23	Red	Orange
6	Brown	-		24	Blue	Orange
7	Red	Black		25	Yellow	Orange
8	Blue	Black		26	Brown	Orange
9	Orange	Black		27	Black	Yellow
10	Yellow	Black		28	Red	Yellow
11	Brown	Black		29	Blue	Yellow
12	Black	Red		30	Orange	Yellow
13	Blue	Red		31	Brown	Yellow
14	Orange	Red		32	Black	Brown
15	Yellow	Red		33	Red	Brown
16	Brown	Red		34	Blue	Brown
17	Black	Blue		35	Orange	Brown
18	Red	Blue		36	Yellow	Brown

Pair cables are black, red and numbered. Triad cables are black, red, blue and numbered.
Colors repeat after 36 conductors. There are no green or white conductors or stripes

ANSI MC 96.1 Conductor Alloy and Color Code

COND.	POSITIVE WIRE		NEGATIVE WIRE		OUTER
TYPE	ALLOY	COLOR	ALLOY	COLOR	JACKET
EX	Chromel	Purple	Constantan	Red	Purple
JX	Iron	White	Constantan	Red	Black
KX	Chromel	Yellow	Alumel	Red	Yellow
TX	Copper	Blue	Constantan	Red	Blue

Method 4 All Conductors Black

CONDUCTOR	CONDUCTOR PRINTING
1st	"1-One"
2nd	"2-Two"
3rd	"3-Three"
4th	"4-Four"
5th	"5-Five"

JACKET AND INSULATION MATERIAL PROPERTIES
THERMOPLASTIC PROPERTIES

INSULATION OR JACKET MATERIAL	CHLORINATED POLYETHYLENE (CPE)	POLYVINYL CHLORIDE (PVC)	LOW-DENSITY POLYETHYLENE	POLYETHYLENE CELLULAR	HIGH-DENSITY POLYETHYLENE	POLY-URETHANE	POLY-PROPYLENE	NYLON	TEFLON	TPE
Oxidation Resistance	E	E	E	E	E	E	E	E	0	E
Heat Resistance	G-E	G-E	G	G-E	E	E	G	E	0	G
Oil Resistance	E	E	G-E	G-E	G-E	E	E	E	0	P
Low Temperature Flexibility	G	P-G	G-E	E	E	E	G	G	0	E
Weather, Sun Resistance	E	G-E	E	E	E	E	F-G	E	0	
Ozone Resistance	E	E	E	E	E	E	E	E	E	E
Abrasion Resistance	E	F-G	F-G	G	E	F-G	0	E	G-E	F
Electrical Properties	F	F-G	E	E	E	E	P-F	F	E	G
Flame Resistance	F	E	P	P	P	P	P	P	0	F
Nuclear Radiation Resistance	G-E	P-F	G	G	G	F	G	F-G	P-F	F
Water Resistance	G	E	E	E	E	E	P	P-F	E	E
Acid Resistance	G-E	G-E	G-E	G-E	G-E	E	F	P-F	E	G
Alkali Resistance	G-E	G-E	G-E	G-E	G-E	E	F	E	E	G
Gasoline, Kerosene, Etc. (Alphatic Hydrocarbons Resistance	F	G-E	P-F	P-F	P-F	P-F	F	G	E	P
Benzol, Toluol, Etc. (Aromatic Hydrocarbons Resistance)	F	P-F	P	P	P	P-F	P	G	E	P
Degreaser Solvents (Halogenated Hydrocarbons Resistance)	P	P-F	P	P	P	P	P	G	E	P
Alcohol Resistance	G	G-E	E	E	E	E	P	P	E	E

P = Poor
F = Fair
G = Good
E = Excellent
O = Outstanding

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JACKET AND INSULATION MATERIAL PROPERTIES
THERMOSET PROPERTIES

INSULATION OR JACKET MATERIAL	STYRENE BUTADIENE RUBBER (SBR)	NATURAL RUBBER	SYNTHETIC RUBBER	POLY-BUTADIENE	NEOPRENE	HYPALON® CHLORO-SULFONATED POLYETHYLENE (CSPE)	NITRILE OR RUBBER BUTADINE NITRILE (NBR)	NITRILE/ POLY-CHLORIDE (NBR/PVC)	ETHYLENE PROPYLENE RUBBER (EPR)	CROSS-LINKED POLYETHYLENE (XLPE)	CHLORINATED POLYETHYLENE (CPE)	SILICONE RUBBER
Oxidation Resistance	F	F	G	G	G	E	F	E	G	E	E	E
Heat Resistance	F-G	F	F	F	G	E	G	G	E	G	E	G
Oil Resistance	P	P	P	P	G	G	G-E	G	F	G	G-E	F-G
Low Temperature Flexibility	F-G	G	E	E	F-G	F	F	F	G-E	0	F	0
Weather, Sun Resistance	F	F	F	F	G	E	F-G	G	E	G	E	0
Ozone Resistance	P	P	P	P	G	E	P	G	E	E	G-E	0
Abrasion Resistance	G-E	E	E	E	G-E	G	G-E	E	G	F-G	G-E	F
Electrical Properties	E	E	E	E	F	G	P	F	E	E	F-G	0
Flame Resistance	P	P	P	P	G	G	P	G	P	F-G	G	F-G
Nuclear Radiation Resistance	F-G	F-G	F-G	P	F-G	G	F-G	P	G	E	G	E
Water Resistance	G-E	G-E	E	E	G	G-E	G-E	E	G-E	G-E	G-E	G-E
Acid Resistance	F-G	F-G	F-G	F-G	G	E	G	G	G-E	G-E	E	F-G
Alkali Resistance	F-G	F-G	F-G	F-G	G	E	F-G	G	G-E	G-E	E	F-G
Gasoline, Kerosene, Etc. (Alphatic Hydrocarbons Resistance	P	P	P	P	G	F	E	G-E	P	F	F	P-F
Benzol, Toluol, Etc. (Aromatic Hydrocarbons Resistance)	P	P	P	P	P-F	F	G	G	F	F	F	P
Degreaser Solvents (Halogenated Hydrocarbons Resistance)	P	P	P	P	P	P-F	P	G	P	F	P	P-G
Alcohol Resistance	F	G	G	F-G	F	G	E	G	P	E	G-E	G

P = Poor
F = Fair
G = Good
E = Excellent
O = Outstanding

- NOTES -

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