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UL and CSA Dual-Rated Wire
UL Style 1007 300V, 80°C (CSA Type TR-64, 90°C) UL Style 1569 300V, 105°C (CSA Type TR-64, 90°C) Insulator: PVC, 1/64 Minimum average wall.

Part Number	AWG Size	Stranding	Insulation.O.D Nominal	Nominal Wt. lbs/1000'
WPA-2801	28	Solid	0.045	1.41
WPA-2807	28	7x36	0.047	1.44
WPA-2601	26	Solid	0.048	1.83
WPA-2607	26	7x34	0.051	1.94
WPA-2401	24	Solid	0.052	2.62
WPA-2407	24	7x32	0.057	2.76
WPA-2201	22	Solid	0.059	3.64
WPA-2207	22	7x30	0.064	3.87
WPA-2001	20	Solid	0.065	4.99
WPA-2010	20	10x30	0.071	5.00
WPA-1801	18	Solid	0.074	7.22
WPA-1816	18	16x30	0.081	7.26
WPA-1601	16	Solid	0.084	10.62
WPA-1626	16	26x30	0.094	10.86

UL 1015 CSA Style TEW
(Also meets CSA TR 32)
Conductor: Tinned Copper. Insulation: PVC, 1/32 Minimum Average Wall
Voltage Rating: 600 V. Temperature Rating: 105°C (221°F)

Part Number	AWG Size	Stranding	Insulation.O.D Nominal	Nominal Wt. lbs/1000'
WPB-2601	26	Solid	0.080	3.91
WPB-2607	26	7x34	0.083	4.00
WPB-2401	24	Solid	0.084	4.97
WPB-2407	24	7x32	0.089	5.11
WPB-2201	22	Solid	0.090	6.04
WPB-2207	22	7x30	0.095	6.27
WPB-2001	20	Solid	0.095	7.59
WPB-2010	20	10x30	0.102	7.60
WPB-1801	18	Solid	0.106	10.10
WPB-1816	18	16x30	0.112	10.16
WPB-1601	16	Solid	0.115	14.12
WPB-1626	16	26x30	0.125	14.36
WPB-1401	14	Solid	0.128	19.83
WPB-1441	14	41x30	0.140	20.10
WPB-1201	12	Solid	0.145	29.23
WPB-1265	12	65x30	0.163	29.66
WPB-1010	10	105x30	0.194	42.20

UL 1061 CSA Type SR PVC
Conductor: Tinned Copper. Insulation: PVC, Semi-rigid, .009 Nominal Wall
Voltage Rating: 300 V. Temperature Rating: 80°C (176°F)

Part Number	AWG Size	Stranding	Insulation.O.D Nominal	Nominal Wt. lbs/1000'
WPC-3001	30	Solid	0.030	0.75
WPC-2801	28	Solid	0.033	0.94
WPC-2807	28	7x36	0.035	0.94
WPC-2601	26	Solid	0.038	1.31
WPC-2607	26	7x34	0.039	1.40
WPC-2401	24	Solid	0.042	1.92
WPC-2407	24	7x32	0.045	2.06
WPC-2201	22	Solid	0.047	2.84
WPC-2207	22	7x30	0.051	3.07
WPC-2001	20	Solid	0.053	4.22
WPC-2010	20	10x30	0.057	4.23
WPC-1801	18	Solid	0.061	6.32
WPC-1816	18	16x30	0.066	6.36
WPC-1601	16	Solid	0.072	9.52
WPC-1626	16	26x30	0.081	9.76

UL 1429, FR-1, 80°C 150V CSA Approved
Conductor: Stranded and Solid Tinned Copper. Insulation: Irradiated PVC, .010 Nominal Wall. Voltage Rating: 150 V (300 V Peak for Electronic Use Only) Temperature Rating:-40°C to +80°C

Part Number	AWG Size	Stranding	Diameter Over Cond. Nom.	Approx. Net Wt. per 1M'
WIA-3001	30	Solid	0.0100	0.75
WIA-3007	30	7x38	0.0120	0.93
WIA-2801	28	Solid	0.0126	1.00
WIA-2807	28	7x36	0.0150	1.09
WIA-2601	26	Solid	0.0159	1.33
WIA-2607	26	7x34	0.0189	1.50
WIA-2619	26	19x38	0.0200	1.58
WIA-2401	24	Solid	0.0201	1.83
WIA-2407	24	7x32	0.0237	2.11
WIA-2419	24	19x36	0.0250	2.22
WIA-2201	22	Solid	0.0254	2.70
WIA-2207	22	7x30	0.0300	3.06
WIA-2219	22	19x34	0.0315	3.15
WIA-2001	20	Solid	0.0319	4.00
WIA-2007	20	7x28	0.0378	4.52
WIA-2019	20	19x32	0.0395	4.81
WIA-1801	18	Solid	0.0403	5.98
WIA-1807	18	7x26	0.0477	6.65
WIA-1819	18	19x30	0.0500	7.23
WIA-1601	16	Solid	0.0640	9.14
WIA-1619	16	19x.0117	0.0585	9.23
WIA-1401*	14	Solid	0.0640	13.95
WIA-1419*	14	19x.0147	0.0735	14.10

*UL Style 1534

UL 1430, FR-1, 105°C 300V (No. 26 thru No. 16 CSA Approved) Conductor: Stranded and Solid Tinned Copper. Insulation: Irradiated PVC, .017 Nominal Wall. Voltage Rating: 300 V (600 V Peak for Electronic Use Only)Temperature Rating: -55°C to +105°C

Part Number	AWG Size	Stranding	Diameter Over Cond. Nom.	Approx. Net Wt. per 1M'
WIB-2601	26	Solid	0.0159	1.83
WIB-2607	26	7x34	0.0189	1.93
WIB-2619	26	19x38	0.0200	2.10
WIB-2401	24	Solid	0.0201	2.42
WIB-2407	24	7x32	0.0237	2.81
WIB-2419	24	19x36	0.0250	2.84
WIB-2201	22	Solid	0.0254	3.20
WIB-2207	22	7x30	0.0300	3.72
WIB-2219	22	19x34	0.0315	3.93
WIB-2001	20	Solid	0.0319	4.69
WIB-2007	20	7x28	0.0378	5.28
WIB-2019	20	19x32	0.0395	5.59
WIB-1801	18	Solid	0.0403	6.80
WIB-1807	18	7x26	0.0477	7.55
WIB-1819	18	19x30	0.0500	7.99
WIB-1601	16	Solid	0.0508	10.02
WIB-1619	16	19x.0117	0.0585	10.60
WIB-1419*	14	19x.0147	0.0735	15.38
WIB-1219**	12	19x.0185	0.0925	23.37

*UL Style 3317, **UL Style 1557

UL 1431, FR-1, 105°C 600V CSA Approved. Conductor: Stranded and Solid Tinned Copper. Insulation: Irradiated PVC, .032 Nominal Wall. Voltage Rating: 600 V (2500 V Peak for Electronic Use Only) Temperature Rating: -55°C to +105°C

Part Number	AWG Size	Stranding	Diameter Over Cond. Nom.	Approx. Net Wt. per 1M'
WIC-2407	24	7x32	0.0237	4.78
WIC-2419	24	19x36	0.0250	4.96
WIC-2207	22	7x30	0.0300	5.92
WIC-2219	22	19x34	0.0315	5.96
WIC-2007	20	7x28	0.0378	7.75
WIC-2019	20	19x32	0.0395	7.98
WIC-1807	18	7x26	0.0477	10.49
WIC-1819	18	19x30	0.0500	10.82
WIC-1619	16	19x.0117	0.0585	13.35
WIC-1419	14	19x.0147	0.0735	18.36
WIC-1219	12	19x.0186	0.1530	30.16
WIC-1037	10	37x.0168	0.1770	45.12
WIC-8133	8	133x39	0.2630	78.01
WIC-6133	6	133x27	0.3430	131.47
WIC-4133	4	133x25	0.3990	191.02

UL & CSA IRRADIATED HOOKUP WIRE

UL 3265, CSA AWM, MIL-W-16878E/14
Conductor: Stranded and Solid Tinned Copper Insulation: Irradiated Cross-linked Polyethylene .011"
Nominal Wall, Voltage Rating: 150V, Temp. Rating: -55°C to +125°C

IWC Part Number	AWG Size	Stranding	Insulation O.D. Nominal
WIG-3001	30	Solid	.030
WIG-3007	30	7/38	.032
WIG-2801	28	Solid	.033
WIG-2807	28	7/36	.035
WIG-2601	26	Solid	.036
WIG-2607	26	7/34	.039
WIG-2619	26	19/38	.040
WIG-2401	24	Solid	.040
WIG-2407	24	7/32	.044
WIG-2419	24	19/36	.045
WIG-2201	22	Solid	.045
WIG-2207	22	7/30	.050
WIG-2219	22	19/34	.052
WIG-2001	20	Solid	.052
WIG-2007	20	7/28	.058
WIG-2019	20	19/32	.060
WIG-1801	18	Solid	.060
WIG-1807	18	7/26	.068
WIG-1816	18	16/30	.068
WIG-1819	18	19/30	.070
WIG-1601	16	Solid	.071
WIG-1619	16	19/.0117	.077
WIG-1626	16	26/30	.080

UL 3266, CSA AWM or CL1252, MIL-W-16878E/15
Conductor: Stranded and Solid Tinned Copper Insulation: Irradiated Cross-linked Polyethylene .016"
Nominal Wall, Voltage Rating: 300V, Temp. Rating: -55°C to +125°C

IWC Part Number	AWG Size	Stranding	Insulation O.D. Nominal
WIH-2601	26	Solid	.048
WIH-2607	26	7/34	.051
WIH-2619	26	19/38	.052
WIH-2401	24	Solid	.052
WIH-2407	24	7/32	.056
WIH-2419	24	19/36	.057
WIH-2201	22	Solid	.057
WIH-2207	22	7/30	.062
WIH-2219	22	19/34	.064
WIH-2001	20	Solid	.064
WIH-2007	20	7/28	.070
WIH-2019	20	19/32	.072
WIH-1801	18	Solid	.072
WIH-1807	18	7/26	.080
WIH-1816	18	16/30	.080
WIH-1819	18	19/30	.082
WIH-1601	16	Solid	.083
WIH-1619	16	19/.0117	.089
WIH-1626	16	26/30	.092
WIH-1401	14	Solid	.098
WIH-1419	14	19/.0147	.106
WIH-1441	14	41/30	.107
WIH-1219	12	19/.0185	.127
WIH-1265	12	65/30	.127
WIH-1037	10	37/.0167	.151
WIH-1010	10	105/30	.154

UL 3271, CSA CL1251, MIL-W-16878E/16
Conductor: Stranded and Solid Tinned Copper Insulation: Irradiated Cross-linked Polyethylene .030"
Nominal Wall, Voltage Rating: 600V, Temp. Rating: -55°C to +125°C

IWC Part Number	AWG Size	Stranding	Insulation O.D. Nominal
WII-2601	26	Solid	.079
WII-2607	26	7/34	.082
WII-2619	26	19/38	.083
WII-2401	24	Solid	.083
WII-2407	24	7/32	.087
WII-2419	24	19/36	.088
WII-2201	22	Solid	.088
WII-2207	22	7/30	.093
WII-2219	22	19/34	.095
WII-2001	20	Solid	.095
WII-2007	20	7/28	.101
WII-2019	20	19/32	.103
WII-1801	18	Solid	.103
WII-1807	18	7/26	.111
WII-1819	18	19/30	.113
WII-1601	16	Solid	.114
WII-1619	16	19/.0117	.120
WII-1626	16	26/30	.123
WII-1401	14	Solid	.127
WII-1419	14	19/.0147	.134
WII-1441	14	41/30	.133
WII-1219	12	19/.0185	.154
WII-1265	12	65/30	.156
WII-1037	10	37/.0167	.179
WII-1010	10	105/30	.182
WII-8133	8	133/.0111	.261
WII-6133	6	133/.0141	.341
WII-4133	4	133/.0177	.392
WII-2665	2	665/30	.456

GPT: General Purpose Thermoplastics
Conductor: Bare Copper, Insulation: PVC, Temperature Rating: 85°C
Meets Ford M1L56-A, Chrysler MS-3450, Packard M-3012, SAE J1128

IWC Part Number	AWG Size	Stranding	Insulation O.D. Nominal
WGP-2207	22	7/30	0.079
WGP-2007	20	7/28	0.084
WGP-1816	18	16/30	0.094
WGP-1619	16	19/29	0.102
WGP-1419	14	19/27	0.117
WGP-1219	12	19/25	0.141
WGP-1019	10	19/23	0.173
WGP-0819	8	19/21	0.215

SXL: Heavy Wall Cross-Linked Polyethylene
Conductor: Bare Copper
Meets Ford M1L85-A, Chrysler MS-5919, Packard M-3023, SAE J1128

IWC Part Number	AWG Size	Stranding	Insulation O.D. Nominal
WSX-2007	20	7/28	0.029
WSX-1816	18	16/30	0.030
WSX-1619	16	19/29	0.032
WSX-1419	14	19/27	0.035
WSX-1219	12	19/25	0.037
WSX-1019	10	19/23	0.041
WSX-0819	8	19/21	0.043

GXL: Standard Wall Cross-Linked Polyethylene
Conductor: Bare Copper
Meets Ford M1L85-B, Chrysler MS-8900, Packard M-3070, SAE J1128

IWC Part Number	AWG Size	Stranding	Insulation O.D. Nominal
WSZ-2007	20	7/28	0.084
WSZ-1816	18	16/30	0.092
WSZ-1619	16	19/29	0.102
WSZ-1419	14	19/27	0.117
WSZ-1219	12	19/25	0.141
WSZ-1019	10	19/23	0.173
WSZ-0819	8	19/21	0.215

UL 1028, UL 1283, CSA-TEW
Conductor: Tinned Copper. Insulation: UL Rated 1028: 3/64" PVC; UL 1283: 4/64" PVC
Voltage Rating: 600 V. Temperature Rating: 105°C

Part Number	AWG Size	UL Style	Stranding	Nominal O.D.
WPB-8133	8	1028	133x29	0.255
WPB-6133	6	1283	133x27	0.355
WPB-4133	4	1283	133x25	0.390
WPB-2665	2	1283	665x30	0.460
WPB-1259	1	1284	259x25	0.525

UL 1332, UL 1333, Conductor: Tin Plated Copper. Insulation: FEP Teflon .013 Minimum Average Wall Voltage Rating: 300 V. Temperature Rating: UL 1332 200°C (392"F), UL 1333 150"C (302"F) Temperature Identification: UL 1332: Black marker thread under insulation (18 AWG and larger). UL 1333: Brown marker thread under insulation (18 AWG and larger) Not required for 20 gauge and smaller.

Part Number	AWG Size	Stranding	Nominal O.D. Over Conductor	Nominal O.D. Over Insulation	Nominal Wt. lbs/1000'
WEB-2601	26	Solid	0.016	0.045	2.09
WEB-2607	26	7x34	0.019	0.048	2.32
WEB-2619	26	19x38	0.019	0.048	2.36
WEB-2401	24	Solid	0.020	0.049	2.72
WEB-2407	24	7x32	0.024	0.053	3.07
WEB-2419	24	19x36	0.024	0.053	3.07
WEB-2201	22	Solid	0.025	0.054	3.65
WEB-2207	22	7x30	0.030	0.060	4.20
WEB-2219	22	19x34	0.030	0.060	4.28
WEB-2001	20	Solid	0.032	0.061	5.12
WEB-2007	20	7x28	0.038	0.068	5.87
WEB-2019	20	19x32	0.038	0.068	6.04
WEB-1807	18	7x26	0.048	0.079	8.46
WEB-1819	18	19x30	0.047	0.079	8.70
WEB-1619	16	19x29	0.053	0.086	10.80
WEB-1419	14	19x27	0.067	0.098	16.00
WEB-1219	12	19x25	0.084	0.116	24.10
WEB-1037	10	37x26	0.108	0.140	35.90

UL 1212, UL 1213, Conductor: Silver Plated Copper. Insulation: TFE Teflon .008
Minimum Average Wall Voltage Rating: Not Specified. Temperature Rating: UL 1212
80°C (176"F), UL 1213 105"C (221"F)

Part Number	AWG Size	Stranding	Nominal O.D. Over Conductor	Nominal O.D. Over Insulation	Nominal Wt. lbs/1000'
WEG-3201	32	Solid	0.008	0.027	0.692
WEG-3207	32	7x40	0.009	0.029	0.784
WEG-3219	32	19x44	0.010	0.029	0.801
WEG-3001	30	Solid	0.010	0.029	0.862
WEG-3007	30	7x38	0.012	0.032	1.020
WEG-3019	30	19x42	0.012	0.032	1.030
WEG-2801	28	Solid	0.013	0.032	1.130
WEG-2807	28	7x36	0.015	0.035	1.320
WEG-2819	28	19x40	0.015	0.035	1.320
WEG-2601	26	Solid	0.016	0.035	1.490
WEG-2607	26	7x34	0.019	0.038	1.710
WEG-2619	26	19x38	0.019	0.038	1.740
WEG-2401	24	Solid	0.020	0.040	2.120
WEG-2407	24	7x32	0.024	0.043	2.410
WEG-2419	24	19x36	0.024	0.043	2.410
WEG-2201	22	Solid	0.025	0.046	3.060
WEG-2207	22	7x30	0.030	0.050	3.470
WEG-2219	22	19x34	0.030	0.050	3.510
WEG-2001	20	Solid	0.032	0.054	4.890
WEG-2007	20	7x28	0.038	0.058	5.050
WEG-2019	20	19x32	0.038	0.058	5.150

UL 1164, UL 1180. Conductor: Silver Plated Copper. Insulation: TFE Teflon .013 Minimum Average Wall Voltage Rating: 300V. Temperature Rating: UL 1164 150°C (302"F), UL 1180 200"C (392"F)Temperature Identification: UL 1164: Brown longitudinal stripe or surface printing (18 AWG and larger). UL 1180: Black longitudinal stripe or surface printing (18 gauge or larger). No identification required for 20 gauge or smaller.

Part Number	AWG Size	Stranding	Nominal O.D. Over Conductor	Nominal O.D. Over Insulation	NominalWt. lbs/1000'
WEY-3201	32	Solid	0.008	0.038	1.23
WEY-3207	32	7x40	0.009	0.039	1.29
WEY-3001	30	Solid	0.010	0.040	1.43
WEY-3007	30	7x28	0.012	0.042	1.56
WEY-2801	28	Solid	0.013	0.042	1.68
WEY-2807	28	7x36	0.015	0.045	1.91
WEY-2819	28	19x40	0.015	0.045	1.91
WEY-2601	26	Solid	0.016	0.045	2.09
WEY-2607	26	7x34	0.019	0.048	2.36
WEY-2619	26	19x38	0.019	0.048	2.40
WEY-2401	24	Solid	0.020	0.049	2.72
WEY-2407	24	7x32	0.024	0.053	3.13
WEY-2419	24	19x36	0.024	0.053	3.13
WEY-2201	22	Solid	0.025	0.054	3.65
WEY-2207	22	7x30	0.030	0.060	4.29
WEY-2219	22	19x34	0.030	0.060	4.34
WEY-2001	20	Solid	0.032	0.061	5.12
WEY-2007	20	7x28	0.038	0.068	6.01
WEY-2019	20	19x32	0.038	0.068	6.09
WEY-1807	18	7x26	0.048	0.079	8.72
WEY-1819	18	19x30	0.047	0.079	8.79
WEY-1619	16	19x29	0.053	0.086	11.00
WEY-1419	14	19x27	0.067	0.102	16.40
WEY-1219	12	19x25	0.084	0.120	24.80
WEY-1037	10	37x26	0.110	0.142	34.40

UL 1198, UL 1199. Conductor: Silver Plated Copper. Insulation: TFE Teflon .020 Minimum Average Wall Voltage Rating: 600V 2500V Peak for Electronic use. Temperature Rating: UL 1198 150°C (302"F), UL 1199 200"C (392"F) Temperature Identification: UL 1198: Brown longitudinal stripe or surface printing (18 AWG and larger). UL 1199 Black longitudinal stripe or surface printing (18 gauge and larger). No identification required for 20 AWG and smaller.

Part Number	AWG Size	Stranding	Nominal O.D. Over Conductor	Nominal O.D. Over Insulation	Nominal Wt. lbs/1000'
WEF-2601	26	Solid	0.016	0.060	3.27
WEF-2607	26	7x34	0.019	0.063	3.60
WEF-2619	26	19x38	0.019	0.063	3.63
WEF-2401	24	Solid	0.020	0.064	3.98
WEF-2407	24	7x32	0.024	0.068	4.49
WEF-2419	24	19x36	0.024	0.068	4.49
WEF-2201	22	Solid	0.025	0.069	5.03
WEF-2207	22	7x30	0.030	0.077	6.03
WEF-2219	22	19x34	0.030	0.077	6.08
WEF-2001	20	Solid	0.032	0.079	7.00
WEF-2007	20	7x28	0.038	0.083	7.71
WEF-2019	20	19x32	0.038	0.083	7.79
WEF-1807	18	7x26	0.048	0.093	10.50
WEF-1819	18	19x30	0.047	0.093	10.60
WEF-1619	16	19x29	0.053	0.101	13.10
WEF-1419	14	19x27	0.067	0.116	18.70
WEF-1219	12	19x25	0.084	0.136	27.80
WEF-1037	10	37x26	0.110	0.156	37.60
WEF-8133	8	133x29	0.164	0.230	71.50

TEST PROD LEAD WIRE

One conductor, tinned soft annealed copper, extra flexible stranding, covered with separator, and a color coded rubber insulation. Offers extreme flexibility and limpness to facilitate testing.

Part Number	Size AWG	Stranding	Nom. Wall Thickness	Working Voltage	Breakdown Voltage	Nom. O.D.
WRP-2041	20	41/36	.047	3000V	12,000V	.140
WRP-1865	18	65/36	.049	5000V	20,000V	.140
WRQ-1865	18	65/36	.088	10,000V	29,000V	.230

CSA - Thin Wall TFE & UL 1213. Conductor: Silver Plated Copper. Insulation: TFE Teflon .010 Minimum Average Wall Voltage Rating: 150V. Temperature Rating: 150°C (302”F)Product Identification: Surface printing required for 24 AWG and larger

Part Number	AWG Size	Stranding	Nominal O.D.	Nominal O.D.	Nominal Wt.
WEK-3201	32	Solid	0.008	0.031	0.86
WEK-3207	32	7x40	0.009	0.032	0.92
WEK-3219	32	19x44	0.010	0.033	0.98
WEK-3001	30	Solid	0.010	0.033	1.04
WEK-3007	30	7x38	0.012	0.035	1.17
WEK-3019	30	19x42	0.012	0.035	1.19
WEK-2801	28	Solid	0.013	0.036	1.32
WEK-2807	28	7x36	0.015	0.038	1.48
WEK-2819	28	19x40	0.015	0.038	1.49
WEK-2601	26	Solid	0.016	0.039	1.71
WEK-2607	26	7x34	0.019	0.042	1.95
WEK-2619	26	19x38	0.019	0.042	1.99
WEK-2407	24	7x32	0.024	0.047	2.68
WEK-2419	24	19x36	0.024	0.047	2.70
WEK-2207	22	7x30	0.030	0.053	3.71
WEK-2219	22	19x34	0.030	0.053	3.78
WEK-2007	20	7x28	0.038	0.061	5.32
WEK-2019	20	19x32	0.038	0.061	5.50
WEK-1819	18	19x30	0.047	0.070	7.95
WEK-1619	16	19x.0117	0.056	0.079	10.40

CSA - Standard Wall TFE & UL 1180. Conductor: Silver Plated Copper. Insulation: TFE Teflon 1/64" Minimum Wall Voltage Rating: 300V. Temperature Rating: 200°C (392”F) Product Identification: Surface printed

Part Number	AWG Size	Stranding	Nominal O.D.	Nominal O.D.	Nominal Wt.
WEL-2801	28	Solid	0.013	0.048	2.08
WEL-2807	28	7x36	0.015	0.050	2.27
WEL-2819	28	19x40	0.015	0.050	2.28
WEL-2601	26	Solid	0.016	0.051	2.52
WEL-2607	26	7x34	0.019	0.054	2.81
WEL-2619	26	19x38	0.019	0.054	2.86
WEL-2401	24	Solid	0.020	0.055	3.18
WEL-2407	24	7x32	0.024	0.059	3.63
WEL-2419	24	19x36	0.024	0.059	3.66
WEL-2201	22	Solid	0.025	0.060	4.12
WEL-2207	22	7x30	0.030	0.065	4.77
WEL-2219	22	19x34	0.030	0.065	4.84
WEL-2001	20	Solid	0.032	0.068	5.80
WEL-2007	20	7x28	0.038	0.073	6.52
WEL-2019	20	19x32	0.038	0.073	6.70
WEL-1819	18	19x30	0.047	0.082	9.32
WEL-1619	16	19x.0117	0.056	0.089	11.70
WEL-1419	14	19x.0147	0.070	0.103	17.10
WEL-1219	12	19x.0185	0.089	0.122	26.00
WEL-1037	10	37x.0167	0.115	0.150	35.30

CSA - Heavy Wall TFE & UL 1199. Conductor: Silver Plated Copper. Insulation: TFE Teflon 1/32" Minimum Average Wall. Heavier for 8 AWG. Voltage Rating: 600V Temperature Rating: 200°C (392”F) Product Identification: Surface printed

Part Number	AWG Size	Stranding	Nominal O.D.	Nominal O.D.	Nominal Wt.
WEM-2801	28	Solid	0.013	0.078	4.91
WEM-2807	28	7x36	0.015	0.080	5.19
WEM-2819	28	19x40	0.015	0.080	5.19
WEM-2601	26	Solid	0.016	0.081	5.48
WEM-2607	26	7x34	0.019	0.084	5.91
WEM-2619	26	19x38	0.019	0.084	5.95
WEM-2401	24	Solid	0.020	0.085	6.32
WEM-2407	24	7x32	0.024	0.089	6.95
WEM-2419	24	19x36	0.024	0.089	6.98
WEM-2201	22	Solid	0.025	0.090	7.54
WEM-2207	22	7x30	0.030	0.095	8.36
WEM-2219	22	19x34	0.030	0.095	8.43
WEM-2001	20	Solid	0.032	0.097	9.37
WEM-2007	20	7x28	0.038	0.103	10.50
WEM-2019	20	19x32	0.038	0.103	10.60
WEM-1819	18	19x30	0.047	0.112	13.70
WEM-1619	16	19x.0117	0.056	0.120	16.50
WEM-1419	14	19x.0147	0.070	0.134	22.60
WEM-1219	12	19x.0185	0.089	0.153	32.20
WEM-1037	10	37x.0167	0.115	0.184	43.80
WEM-8133	8	133x29	0.164	0.265	84.40

UL 1061 CSA Type SR PVC.
Conductor: Tinned Copper. Insulation: PVC, Semi-rigid, .009 Nominal Wall
Voltage Rating: 300 V. Temperature Rating: 80°C (176°F)

Part Number	AWG Size	Stranding	Insulation.O.D Nominal	Nominal Wt. lbs/1000'
WPC-3001	30	Solid	0.030	0.75
WPC-2801	28	Solid	0.033	0.94
WPC-2601	26	Solid	0.038	1.31
WPC-2401	24	Solid	0.042	1.92
WPC-2201	22	Solid	0.047	2.84
WPC-2001	20	Solid	0.053	4.22

UL 1371, TFE Teflon
Conductor: Silver Plated Copper. Insulation: TFE Teflon, .0065 Nominal Wall.
Voltage Rating: Not Specified. Temperature Rating: 105°C (221"F)

Part Number	AWG Size	Stranding	Insulation.O.D Nominal	Nominal Wt. lbs/1000'
WEP-3001	30	Solid	0.023	0.62
WEP-2801	28	Solid	0.026	0.87
WEP-2601	26	Solid	0.029	1.21
WEP-2401	24	Solid	0.042	2.12

UL 1422, KYNAR
Conductor: Silver Plated Copper. Insulation: KYNAR, .005 Nominal Wall.
Voltage Rating: Not Specified. Temperature Rating: 105°C (221"F)

Part Number	AWG Size	Stranding	Insulation.O.D Nominal	Nominal Wt. lbs/1000'
WKA-3001	30	Solid	0.021	0.56
WKA-2801	28	Solid	0.024	0.80
WKA-2601	26	Solid	0.027	1.11
WKA-2401	24	Solid	0.031	1.73
WKA-2201	22	Solid	0.036	2.38
WKA-2001	20	Solid	0.043	3.64

UL 1423, KYNAR
Conductor: Silver Plated Copper. Insulation: KYNAR, .004 Nominal Wall.
Voltage Rating: Not Specified. Temperature Rating: 105°C (221"F)

Part Number	AWG Size	Stranding	Nominal .O.D (Inches)	Nominal Wt. lbs/1000'
WKB-3001	30	Solid	0.020	0.47
WKB-2801	28	Solid	0.023	0.69
WKB-2601	26	Solid	0.025	0.99
WKB-2401	24	Solid	0.029	1.48
WKB-2201	22	Solid	0.034	2.26
WKB-2001	20	Solid	0.041	3.49

UL 1508, TEFZEL
Conductor: Tin Plated Copper. Insulation: TEFZEL, .006 Nominal Wall.
Voltage Rating: 30V. Temperature Rating: 105°C (221"F)

Part Number	AWG Size	Stranding	Insulation.O.D Nominal	Nominal Wt. lbs/1000'
WTD-3001	30	Solid	0.024	0.58
WTD-2801	28	Solid	0.027	0.81
WTD-2601	26	Solid	0.030	1.14
WTD-2401	24	Solid	0.034	1.66
WTD-2201	22	Solid	0.039	2.46
WTD-2001	20	Solid	0.046	3.73

MIL-W-81822/3 Wire Wrap - KYNAR
Conductor: Annealed (A), OFHC (B), or Alloy 135 (C). Insulation: Extruded Kynar. Voltage Rating: 300V Temperature Rating: 135°C (275”F)Dielectric Constant: 6.60 maximum at 1MHz Color: White, blue, yellow, black and red, in that order, are preferred colors. Other colors available on special order.

Part Number	AWG Size	Insulation Diam	Cut-Through (grams)	Cold Flow (grams)	Insulation Pull-Off (lbs)
WKC-3001	30	.0195 + - .0010	850	600	.5-2.5
WKC-2801	28	.0265 + - .0015	900	650	.5-2.5
WKC-2601	26	.0295 + - .0015	950	700	1-4
WKC-2401	24	0.034 + - .0015	1000	750	1-4
WKC-2201	22	0.039 + - .0020	1100	850	1-6
WKC-2001	20	0.046 + - .0020	1200	950	1-6
WKC-1801	18	0.054 + - .0030	1300	1050	1-6

MIL-W-81822/6 Wire Wrap - TFE
Conductor: Annealed (A), OFHC (B), or Alloy 135 (C) Copper, Silver Plated
Insulation: Extruded TFE Teflon Temperature Rating: 200°C (392”F)Dielectric Constant: 2.20 maximum at 1MHz. Color: 10 basic colors

Part Number	AWG Size	Insulation Diam	Cut-Through (grams)	Cold Flow (grams)	Insulation Pull-Off (lbs)
WER-3001	30	0.0225 + - .0015	375	225	.25-1.5
WER-2801	28	0.0260 + - .002	425	350	.25-2.5
WER-2601	26	0.0310 + - .002	750	500	5-4
WER-2401	24	0.0420 + - .002	750	500	5-4
WER-2201	22	0.0480 + - .002	750	500	1-6
WER-2001	20	0.0560 + - .002	750	500	1-6
WER-1801	18	0.0650 + - .002	850	600	1-6

MIL-W-81822/13 Wire Wrap - TEFZEL
Conductor: Annealed (A), OFHC (B), or Alloy 135 (C) Copper, Silver Plated
Insulation: Extruded ETFE Tefzel. Temperature Rating: 150°C (302”F). Voltage Rating: 300V. Dielectric Constant: 2.70 maximum at 1MHz. Color: 10 Basic colors

Part Number	AWG Size	Insulation Diam	Cut-Through (grams)	Cold Flow (grams)	Insulation Pull-Off (lbs)
WTE-3001	30	.0195 + - .0010	800	550	.5-2.5
WTE-2801	28	.0265 + - .0015	850	600	.5-2.5
WTE-2601	26	.0295 + - .0015	900	650	1-4
WTE-2401	24	0.034 + - .0015	950	700	1-4
WTE-2201	22	0.039 + - .0020	1000	750	1-6
WTE-2001	20	0.046 + - .0020	1100	850	1-6
WTE-1801	18	0.054 + - .0030	1200	950	1-6

MIL-W-16878/1 Type IB
Conductor: Tinned Copper. Insulation: Irradiated PVC .010 Nominal Wall
Temperature Rating: 105°C (221"F) Voltage Rating: 600V

Part Number	AWG Size	Stranding	Insulation.O.D Nominal	Nominal Wt. lbs/1000'
WID-3207	32	7x40	.029	.60
WID-3007	30	7x38	.032	.80
WID-2807	28	7x36	.034	1.00
WID-2607	26	7x34	.038	1.42
WID-2619	26	19x38	.038	1.56
WID-2407	24	7x32	.044	2.05
WID-2419	24	19x36	.044	2.22
WID-2207	22	7x30	.050	2.97
WID-2219	22	19x34	.050	3.22
WID-2007	20	7x28	.058	4.41
WID-2019	20	19x32	.058	4.75
WID-1807	18	7x26	.068	6.63
WID-1819	18	19x30	.068	7.00
WID-1619	16	19x29	.077	8.80
WID-1419	14	19x27	.091	13.78

MIL-W-16878/2 Type IC
Conductor: Tinned Copper. Insulation: Irradiated PVC .015 Nominal Wall
Temperature Rating: 105°C (221"F) Voltage Rating: 1000V

Part Number	AWG Size	Stranding	Insulation.O.D Nominal	Nominal Wt. lbs/1000'
WIE-2607	26	7x34	.053	2.06
WIE-2407	24	7x32	.055	2.59
WIE-2419	24	19x36	.058	2.80
WIE-2207	22	7x30	.061	3.64
WIE-2219	22	19x34	.061	3.75
WIE-2007	20	7x28	.069	5.20
WIE-2019	20	19x32	.072	5.65
WIE-1807	18	7x26	.082	7.83
WIE-1819	18	19x30	.082	8.25
WIE-1619	16	19x29	.091	10.36
WIE-1419	14	19x27	.105	15.07
WIE-1219	12	19x25	.124	23.56

MIL-W-16878/3 Type ID
Conductor: Tinned Copper. Insulation: Irradiated PVC .030 Nominal Wall
Temperature Rating: 105°C (221"F) Voltage Rating: 3000V

Part Number	AWG Size	Stranding	Insulation.O.D Nominal	Nominal Wt. lbs/1000'
WIF-2407	24	7x32	.080	4.13
WIF-2207	22	7x30	.086	5.52
WIF-2219	22	19x34	.086	5.66
WIF-2007	20	7x28	.094	7.31
WIF-2019	20	19x32	.096	7.74
WIF-1807	18	7x26	.104	9.76
WIF-1819	18	19x30	.104	10.32
WIF-1619	16	19x29	.113	12.46
WIF-1419	14	19x27	.127	17.73
WIF-1219	12	19x25	.160	27.98
WIF-1037	10	37x26	.181	39.21
WIF-8133	8	133x29	.242	70.58
WIF-6133	6	133x27	.286	107.16

MIL-W-16878

MIL-W-16878 covers unshielded wire for hook-up and lead wiring of electrical and electronic components and equipment.
Part numbers are coded as stated below:

M-16878/4 - B - C - B - 9

- 9 — Color Code
- B — Conductor Stranding
- C — Conductor Size (AWG)
- B — Conductor Material
- M-16878/4 — Specification Sheet

CONDUCTOR MATERIAL

A = Bare Copper
B = Plated Copper
C = Plated Copper -- Covered Steel
D = Plates, High-Strength Copper Alloy

CONDUCTOR SIZE

AWG	Letter	AWG	Letter	AWG	Letter
32	A	18	H	4	R
30	B	16	J	2	S
28	C	14	K	1	T
26	D	12	L	0	U
24	E	10	M	00	W
22	F	8	N	000	Y
20	G	6	P	0000	Z

CONDUCTOR STRANDING

No. of Strands	Letter	No. of Strands	Letter	No. of Strands	Letter
1 (solid)	A	41	H	665	P
7	B	65	J	817	R
10	C	105	K	1045	S
16	D	133	L	1330	T
19	E	259	M	1672	V
26	F	427	N	2109	W
37	G				

COLOR CODE

Color	Number Designator	Color	Number Designator
Black	0	Green	5
Brown	1	Blue	6
Red	2	Violet	7
Orange	3	Gray	8
Yellow	4	White	9

MIL-W-16878/1 Type B
Conductor: Tinned Copper. Insulation: PVC .010 Nominal Wall
Temperature Rating: 105°C (221"F) Voltage Rating: 600V

Part Number	AWG Size	Stranding	Insulation.O.D Nominal	Nominal Wt. lbs/1000'
WPD-3207	32	7x40	.029	.60
WPD-3007	30	7x38	.032	.80
WPD-2807	28	7x36	.034	1.00
WPD-2607	26	7x34	.038	1.42
WPD-2619	26	19x38	.038	1.56
WPD-2407	24	7x32	.044	2.05
WPD-2419	24	19x36	.044	2.22
WPD-2207	22	7x30	.050	2.97
WPD-2219	22	19x34	.050	3.22
WPD-2007	20	7x28	.058	4.41
WPD-2019	20	19x32	.058	4.75
WPD-1807	18	7x26	.068	6.63
WPD-1819	18	19x30	.068	7.00
WPD-1619	16	19x29	.077	8.80
WPD-1419	14	19x27	.091	13.78

MIL-W-16878/17 Type B/N
Conductor: Tinned Copper. Insulation: PVC .010 Nominal Wall
Jacket: Clear Nylon. Temperature Rating: 105°C (221"F) Voltage Rating: 600V

Part Number	AWG Size	Stranding	Insulation.O.D Nominal	Nominal Wt. lbs/1000'
WPE-3207	32	7x40	.034	.72
WPE-3007	30	7x38	.037	.93
WPE-2807	28	7x36	.039	1.14
WPE-2607	26	7x34	.043	1.57
WPE-2407	24	7x32	.049	2.22
WPE-2419	24	19x36	.049	2.40
WPE-2207	22	7x30	.055	3.25
WPE-2219	22	19x34	.055	3.44
WPE-2007	20	7x28	.063	4.77
WPE-2019	20	19x32	.063	5.00
WPE-1807	18	7x26	.074	7.16
WPE-1819	18	19x30	.074	7.34
WPE-1619	16	19x29	.084	9.43
WPE-1419	14	19x27	.098	14.27

MIL-W-16878/2 Type C
Conductor: Tinned Copper. Insulation: PVC .015 Nominal Wall
Temperature Rating: 105°C (221"F) Voltage Rating: 1000V

Part Number	AWG Size	Stranding	Insulation.O.D Nominal	Nominal Wt. lbs/1000'
WPF-2607	26	7x34	.053	2.06
WPF-2407	24	7x32	.055	2.59
WPF-2419	24	19x36	.058	2.80
WPF-2207	22	7x30	.061	3.64
WPF-2219	22	19x34	.061	3.75
WPF-2007	20	7x28	.069	5.20
WPF-2019	20	19x32	.072	5.65
WPF-1807	18	7x26	.082	7.83
WPF-1819	18	19x30	.082	8.25
WPF-1619	16	19x29	.091	10.36
WPF-1419	14	19x27	.105	15.07
WPF-1219	12	19x25	.124	23.56

MIL-W-76B General Purpose Hook-Up Type MW
Conductor: Stranded and Solid Tinned Copper. Insulation: Extruded PVC .016 Nominal Wall
Temperature Rating: -40°C to +80°C Voltage Rating: 1000V

Part Number	AWG Size	Stranding	Insulation.O.D Nominal	Nominal Wt. lbs/1000'
WPY-2401	24	Solid	.054	2.50
WPY-2407	24	7x32	.058	2.70
WPY-2201	22	Solid	.059	3.40
WPY-2207	22	7x30	.065	3.70
WPY-2001	20	Solid	.066	4.60
WPY-2010	20	10x30	.072	5.30
WPY-1801	18	Solid	.074	6.70
WPY-1816	18	16x30	.084	8.10
WPY-1626	16	26x30	.091	10.00
WPY-1419	14	19x27	.105	14.90
WPY-1219	12	19x25	.124	22.80

MIL-W-16878/18 Type C/N
Conductor: Tinned Copper. Insulation: PVC .015 Nominal Wall
Jacket: Clear Nylon. Temperature Rating: 105°C (221°F) Voltage Rating: 1000V

Part Number	AWG Size	Stranding	Insulation.O.D Nominal	Nominal Wt. lbs/1000'
WPG-2607	26	7x34	.058	2.27
WPG-2407	24	7x32	.063	2.93
WPG-2419	24	19x36	.063	3.03
WPG-2207	22	7x30	.066	4.00
WPG-2219	22	19x34	.069	4.22
WPG-2007	20	7x28	.079	5.78
WPG-2019	20	19x32	.079	6.04
WPG-1807	18	7x26	.084	7.91
WPG-1819	18	19x30	.089	8.70
WPG-1619	16	19x29	.098	10.90
WPG-1419	14	19x27	.113	15.72
WPG-1219	12	19x25	.133	24.43

MIL-W-16878/3 Type D
Conductor: Tinned Copper. Insulation: PVC .030 Nominal Wall
Temperature Rating: 105°C (221°F) Voltage Rating: 3000V

Part Number	AWG Size	Stranding	Insulation.O.D Nominal	Nominal Wt. lbs/1000'
WPH-2407	24	7x32	.080	4.13
WPH-2207	22	7x30	.086	5.52
WPH-2219	22	19x34	.086	5.66
WPH-2007	20	7x28	.094	7.31
WPH-2019	20	19x32	.096	7.74
WPH-1807	18	7x26	.104	9.76
WPH-1819	18	19x30	.104	10.32
WPH-1619	16	19x29	.113	12.46
WPH-1419	14	19x27	.127	17.73
WPH-1219	12	19x25	.160	27.98
WPH-1037	10	37x26	.181	39.21
WPH-8133	8	133x29	.248	70.58
WPH-6133	6	133x27	.293	107.61
WPH-4133	4	133x25	.358	170.51
WPH-2665	2	665x30	.432	249.50
WPH-1817	1	817x30	.482	310.84
WPH-1045	1/0	1045x30	.535	413.23

MIL-W-16878/19 Type D/N
Conductor: Tinned Copper. Insulation: PVC .030 Nominal Wall
Jacket: Clear Nylon. Temperature Rating: 105°C (221°F) Voltage Rating: 3000V

Part Number	AWG Size	Stranding	Insulation.O.D Nominal	Nominal Wt. lbs/1000'
WPI-2407	24	7x32	.088	4.55
WPI-2419	24	19x36	.088	4.67
WPI-2207	22	7x30	.094	5.74
WPI-2219	22	19x34	.094	5.93
WPI-2007	20	7x28	.101	7.44
WPI-2019	20	19x32	.101	7.72
WPI-1807	18	7x26	.112	10.20
WPI-1819	18	19x30	.112	10.65
WPI-1619	16	19x29	.121	12.81
WPI-1419	14	19x27	.136	18.30
WPI-1219	12	19x25	.170	28.89
WPI-1037	10	37x26	.193	40.69
WPI-8133*	8	133x29	.266	73.12
WPI-6133*	6	133x27	.314	110.62

*w/ nylon braid

MIL-W-16878/4 Type E

Conductor: Silver Plated Copper. Insulation: TFE Teflon .010 Nominal Wall
Temperature Rating: 200°C (392°F) Voltage Rating: 600V

Part Number	AWG Size	Stranding	Insulation O.D. Min-Max	Nominal Wt. lbs/1000'
WES-3207	32	7x40	.025 - .033	.70
WES-3219	32	19x44	.026 - .034	.81
WES-3001	30	Solid	.026 - .034	.90
WES-3007	30	7x38	.028 - .036	.93
WES-3019	30	19x32	.028 - .036	.89
WES-2801	28	Solid	.029 - .036	1.17
WES-2807	28	7x36	.031 - .039	1.22
WES-2819	28	19x40	.031 - .039	1.20
WES-2601	26	Solid	.032 - .040	1.55
WES-2607	26	7x34	.035 - .043	1.66
WES-2619	26	19x38	.035 - .043	1.70
WES-2401	24	Solid	.036 - .044	2.12
WES-2407	24	7x32	.040 - .048	2.35
WES-2419	24	19x36	.040 - .048	2.39
WES-2201	22	Solid	.041 - .049	2.92
WES-2207	22	7x30	.046 - .054	3.33
WES-2219	22	19x34	.046 - .054	3.42
WES-2001	20	Solid	.048 - .056	4.18
WES-2007	20	7x28	.054 - .062	4.97
WES-2019	20	19x32	.054 - .062	5.08
WES-1807	18	7x36	.064 - .074	7.70
WES-1819	18	19x30	.064 - .074	7.74
WES-1619	16	19x29	.073 - .087	10.10
WES-1419	14	19x27	.087 - .101	15.50
WES-1219	12	19x25	.106 - .120	23.70
WES-1037	10	37x26	.129 - .133	35.20

MIL-W-16878/5 Type EE

Conductor: Silver Plated Copper. Insulation: TFE Teflon .015 Nominal Wall
Temperature Rating: 200°C (392°F) Voltage Rating: 1000V

Part Number	AWG Size	Stranding	Insulation O.D. Min-Max	Nominal Wt. lbs/1000'
WEZ-3007	30	7x38	.038 - .046	1.55
WEZ-3019	30	19x42	.038 - .046	1.60
WEZ-2801	28	Solid	.039 - .044	1.74
WEZ-2807	28	7x36	.041 - .049	1.89
WEZ-2819	28	19x40	.041 - .049	1.95
WEZ-2601	26	Solid	.042 - .047	2.16
WEZ-2607	26	7x34	.045 - .053	2.40
WEZ-2619	26	19x38	.045 - .053	2.48
WEZ-2401	24	Solid	.046 - .054	2.80
WEZ-2407	24	7x32	.050 - .058	3.12
WEZ-2419	24	19x36	.050 - .058	3.18
WEZ-2201	22	Solid	.051 - .059	3.74
WEZ-2207	22	7x30	.056 - .064	4.18
WEZ-2219	22	19x34	.056 - .064	4.32
WEZ-2001	20	Solid	.058 - .063	5.22
WEZ-2007	20	7x28	.064 - .072	5.84
WEZ-2019	20	19x32	.064 - .072	6.10
WEZ-1807	18	7x26	.074 - .084	8.10
WEZ-1819	18	19x30	.074 - .084	8.67
WEZ-1619	16	19x29	.083 - .095	11.10
WEZ-1419	14	19x27	.097 - .113	16.40
WEZ-1219	12	19x25	.116 - .132	24.80
WEZ-1037	10	37x26	.141 - .145	35.80
WEZ-8133	8	133x29	.211 - .215	68.90

MIL-W-16878/6 Type ET

Conductor: Silver Plated Copper. Insulation: TFE Teflon .006 Nominal Wall
Temperature Rating: 200°C (392°F) Voltage Rating: 250V

Part Number	AWG Size	Stranding	Insulation O.D. Min-Max	Nominal Wt. lbs/1000'
WEU-3801	38	Solid	.012 - .018	.17
WEU-3807	38	7x46	.013 - .019	.18
WEU-3601	36	Solid	.013 - .019	.27
WEU-3607	36	7x44	.014 - .020	.30
WEU-3401	34	Solid	.014 - .020	.34
WEU-3407	34	7x42	.015 - .021	.38
WEU-3201	32	Solid	.016 - .022	.45
WEU-3207	32	7x40	.019 - .023	.48
WEU-3219	32	19x44	.019 - .023	.52
WEU-3001	30	Solid	.018 - .024	.59
WEU-3007	30	7x38	.022 - .026	.66
WEU-3019	30	19x42	.022 - .026	.68
WEU-2801	28	Solid	.021 - .027	.80
WEU-2807	28	7x36	.025 - .029	.91
WEU-2819	28	19x40	.025 - .029	.98
WEU-2601	26	Solid	.024 - .030	1.16
WEU-2607	26	7x34	.029 - .033	1.30
WEU-2619	26	19x38	.029 - .033	1.40
WEU-2407	24	7x32	.034 - .038	1.90
WEU-2419	24	19x36	.034 - .038	2.02
WEU-2207	22	7x30	.040 - .044	2.80
WEU-2219	22	19x34	.040 - .044	2.98
WEU-2007	20	7x28	.048 - .052	4.24
WEU-2019	20	19x32	.048 - .052	4.60

MIL-W-16878/11 Type K

Conductor: Silver Plated Copper. Insulation: FEP Teflon .010 Nominal Wall
Temperature Rating: 200°C (392°F) Voltage Rating: 600V

Part Number	AWG Size	Stranding	Insulation O.D. Min-Max	Nominal Wt. lbs/1000'
WEV-3207	32	7x40	.025 - .033	0.70
WEV-3219	32	19x44	.025 - .033	0.76
WEV-3001	30	Solid	.026 - .034	0.90
WEV-3007	30	7x38	.028 - .036	0.93
WEV-3019	30	19x42	.028 - .036	0.89
WEV-2801	28	Solid	.029 - .037	1.17
WEV-2807	28	7x36	.031 - .039	1.22
WEV-2819	28	19x40	.031 - .039	1.20
WEV-2601	26	Solid	.032 - .040	1.55
WEV-2607	26	7x34	.035 - .043	1.66
WEV-2619	26	19x38	.035 - .043	1.70
WEV-2401	24	Solid	.036 - .044	2.12
WEV-2407	24	7x32	.040 - .048	2.35
WEV-2419	24	19x36	.040 - .048	2.39
WEV-2201	22	Solid	.041 - .049	2.92
WEV-2207	22	7x30	.046 - .054	3.33
WEV-2219	22	19x34	.046 - .054	3.42
WEV-2001	20	Solid	.048 - .056	4.18
WEV-2007	20	7x28	.054 - .062	4.97
WEV-2019	20	19x32	.054 - .062	5.08
WEV-1807	18	7x26	.064 - .074	7.70
WEV-1819	18	19x30	.064 - .074	7.74
WEV-1619	16	19x29	.073 - .087	10.10
WEV-1419	14	19x27	.087 - .101	15.50
WEV-1219	12	19x25	.106 - .120	23.70

MIL-W-16878/12 Type KK

Conductor: Silver Plated Copper. Insulation: FEP Teflon .015 Nominal Wall, Heavier for larger AWG. Temperature Rating: 200°C (392°F) Voltage Rating: 1000V

Part Number	AWG Size	Stranding	Insulation O.D. Min-Max	Nominal Wt. lbs/1000'
WEW-3207	32	7x40	.035 - .040	1.29
WEW-3219	32	19x44	.035 - .040	1.34
WEW-3001	30	Solid	.036 - .041	1.43
WEW-3007	30	7x38	.038 - .046	1.55
WEW-3019	30	19x42	.038 - .046	1.60
WEW-2801	28	Solid	.039 - .044	1.74
WEW-2807	28	7x36	.041 - .049	1.89
WEW-2819	28	19x40	.041 - .049	1.95
WEW-2601	26	Solid	.042 - .047	2.16
WEW-2607	26	7x34	.045 - .053	2.40
WEW-2619	26	19x38	.045 - .053	2.48
WEW-2401	24	Solid	.046 - .054	2.80
WEW-2407	24	7x32	.050 - .058	3.12
WEW-2419	24	19x36	.050 - .058	3.18
WEW-2201	22	Solid	.051 - .059	3.74
WEW-2207	22	7x30	.056 - .064	4.18
WEW-2219	22	19x34	.056 - .064	4.32
WEW-2001	20	Solid	.058 - .063	5.22
WEW-2007	20	7x28	.064 - .072	5.84
WEW-2019	20	19x32	.064 - .072	6.10
WEW-1807	18	7x26	.074 - .084	8.10
WEW-1819	18	19x30	.074 - .084	8.67
WEW-1619	16	19x29	.083 - .095	11.10
WEW-1419	14	19x27	.097 - .113	16.40
WEW-1219	12	19x25	.116 - .132	24.80
WEW-1037	10	37x26	.137 - .153	36.50
WEW-8133	8	133x29	.197 - .217	63.00
WEW-6133	6	133x27	.283 - .298	116.00
WEW-4133	4	133x25	.346 - .366	178.00
WEW-2665	2	665x30	.415 - .435	268.00

MIL-W-16878/13 Type KT

Conductor: Silver Plated Copper. Insulation: FEP Teflon .006 Nominal Wall
Temperature Rating: 200°C (392°F) Voltage Rating: 250V

Part Number	AWG Size	Stranding	Insulation O.D. Min-Max	Nominal Wt. lbs/1000'
WEX-3607	36	7x44	.014 - .020	.30
WEX-3401	34	Solid	.014 - .020	.34
WEX-3407	34	7x42	.015 - .021	.38
WEX-3201	32	Solid	.016 - .022	.45
WEX-3207	32	7x40	.019 - .023	.48
WEX-3219	32	19x44	.019 - .023	.52
WEX-3001	30	Solid	.018 - .024	.59
WEX-3007	30	7x38	.022 - .026	.66
WEX-3019	30	19x42	.022 - .026	.68
WEX-2801	28	Solid	.021 - .027	.80
WEX-2807	28	7x36	.025 - .029	.91
WEX-2819	28	19x40	.025 - .029	.98
WEX-2601	26	Solid	.024 - .030	1.16
WEX-2607	26	7x34	.029 - .033	1.30
WEX-2619	26	19x38	.029 - .033	1.40
WEX-2407	24	7x32	.034 - .038	1.90
WEX-2419	24	19x36	.034 - .038	2.02
WEX-2207	22	7x30	.040 - .044	2.80
WEX-2219	22	19x34	.040 - .044	2.98
WEX-2007	20	7x28	.048 - .052	4.24
WEX-2019	20	19x32	.048 - .052	4.60

MIL-W-22759/1
Conductor: Silver Coated Copper. Insulation: Fluoropolymer
Jacket: TFE and TFE Coated Glass. Voltage Rating: 600V

Part Number	Mil Spec	AWG Size	Stranding	Diam. Stranded Cond. min/max (Inches)	^Resist. 20°C (ohms/1000ft max)	^Diameter (Inches)	^Weight (lbs/ 1000ft)
WAPP-2219	M22759/1-22*	22	19x34	.029 - .032	15.100	.084 + - .004	7.5
WAPP-2019	M22759/1-20-*	20	19x32	.037 - .040	9.190	.094 + - .004	9.5
WAPP-1819	M22759/1-18-*	18	19x30	.046 - .050	5.790	.105 + - .005	13.0
WAPP-1619	M22759/1-16-*	16	19x29	.052 - .057	4.520	.120 + - .005	16.5
WAPP-1419	M22759/1-14-*	14	19x27	.065 - .072	2.880	.138 + - .005	23.0
WAPP-1237	M22759/1-12-*	12	37x28	.084 - .089	1.900	.157 + - .005	32.1
WAPP-1037	M22759/1-10-*	10	37x26	.106 - .112	1.190	.181 + - .007	47.0
WAPP-8133	M22759/1-8-*	8	133x29	.158 - .169	.658	.248 + - .007	82.0
WAPP-6133	M22759/1-6-*	6	133x27	.198 - .213	.418	.293 + - .010	122.0
WAPP-4133	M22759/1-4-*	4	133x25	.250 - .268	.264	.355 + - .015	180.0
WAPP-2665	M22759/1-2-*	2	665x30	.320 - .340	.170	.420 + - .015	275.0
WAPP-1817	M22759/1-1-*	1	817x30	.360 - .380	.139	.470 + - .015	348.0
WAPP-1045	M22759/1-01-*	0	1045x30	.395 - .425	.108	.515 + - .020	429.0
WAPP-1330	M22759/1-02-*	00	1330x30	.440 - .475	.085	.575 + - .020	542.0
WAPP-1665	M22759/1-03-*	000	1665x30	.500 - .540	.068	.640 + - .020	668.0
WAPP-2109	M22759/1-04-*	0000	2109x30	.565 - .605	.054	.710 + - .020	835.0

1/ Part No.: The asterisks in the Mil Spec column shall be replaced by color code designators in accordance with MIL-STD-681. Examples: Size 20, white - M22759/1-20-9; white with orange stripe - M22759/1-20-93.
^ Refers to the Finished Wire

MIL-W-22759/2
Conductor: Nickel Coated Copper. Insulation: Fluoropolymer
Jacket: TFE and TFE Coated Glass. Voltage Rating: 600V

Part Number	Mil Spec	AWG Size	Stranding	Diam. Stranded Cond. min/max (Inches)	^Resist. 20°C (ohms/1000ft max)	^Diameter (Inches)	^Weight (lbs/ 1000ft)
WAO-2219	M22759/2-22*	22	19x34	.029 - .033	16.000	.084 + - .004	7.5
WAO-2019	M22759/2-20-*	20	19x32	.037 - .041	9.770	.094 + - .004	9.5
WAO-1819	M22759/2-18-*	18	19x30	.046 - .051	6.100	.105 + - .005	13.0
WAO-1619	M22759/2-16-*	16	19x29	.052 - .058	4.760	.120 + - .005	16.5
WAO-1419	M22759/2-14-*	14	19x27	.065 - .073	3.000	.138 + - .005	23.0
WAO-1237	M22759/2-12-*	12	37x28	.084 - .090	1.980	.157 + - .005	32.1
WAO-1037	M22759/2-10-*	10	37x26	.106 - .114	1.240	.181 + - .007	47.0
WAO-8133	M22759/2-8-*	8	133x29	.158 - .173	.694	.248 + - .007	82.0
WAO-6133	M22759/2-6-*	6	133x27	.198 - .217	.436	.293 + - .010	122.0
WAO-4133	M22759/2-4-*	4	133x25	.250 - .274	.275	.355 + - .015	180.0
WAO-2665	M22759/2-2-*	2	655x30	.320 - .340	.177	.420 + - .015	275.0
WAO-1817	M22759/2-1-*	1	817x30	.360 - .380	.144	.470 + - .015	348.0
WAO-1045	M22759/2-01-*	0	1045x30	.395 - .425	.113	.515 + - .020	429.0
WAO-1330	M22759/2-02-*	00	1330x30	.440 - .475	.089	.575 + - .020	542.0
WAO-1665	M22759/2-03-*	000	1665x30	.500 - .540	.071	.640 + - .020	668.0
WAO-2109	M22759/2-04-*	0000	2109x30	.565 - .605	.056	.710 + - .020	835.0

1/ Part No.: The asterisks in the Mil Spec column shall be replaced by color code designators in accordance with MIL-STD-681. Examples: Size 20, white - M22759/2-20-9; white with orange stripe - M22759/2-20-93.
^ Refers to the Finished Wire

MIL-W-22759/3
Conductor: Nickel Coated Copper. Insulation: Fluoropolymer, Medium Weight
Jacket: TFE Glass TFE. Voltage Rating: 600V

Part Number	Mil Spec	AWG Size	Strand.	Diam. Stranded Cond. min/max (in)	^Resist. 20°C(ohms/ 1000ft max)	^TFE Jacket Thick. (in)	^Diameter (in)	^Weight (lbs/ 1000ft) (max)
WAP-2219	M22759/3-22-*	22	19x34	.029 - .033	16.000	.009 + - .002	.074 + - .003	5.90
WAP-2019	M22759/3-20-*	20	19x32	.037 - .041	9.770	.009 + - .002	.082 + - .003	7.90
WAP-1819	M22759/3-18-*	18	19x30	.046 - .051	6.100	.010 + - .002	.095 + - .003	11.00
WAP-1619	M22759/3-16-*	16	19x29	.052 - .058	4.760	.010 + - .002	.103 + - .004	13.60
WAP-1419	M22759/3-14-*	14	19x27	.065 - .073	3.000	.010 + - .002	.116 + - .004	18.50
WAP-1237	M22759/3-12-*	12	37x28	.084 - .090	1.980	.010 + - .002	.133 + - .004	26.60
WAP-1037	M22759/3-10-*	10	37x26	.106 - .114	1.240	.010 + - .002	.164 + - .006	41.50
WAP-8133	M22759/3-8-*	8	133x29	.158 - .173	.694	.010 + - .002	.235 + - .007	77.40
WAP-6133	M22759/3-6-*	6	133x27	.198 - .217	.436	.010 + - .002	.282 + - .010	115.00
WAP-4133	M22759/3-4-*	4	133x25	.250 - .274	.275	.012 + - .003	.351 + - .015	184.00
WAP-2665	M22759/3-2-*	2	665x30	.320 - .340	.177	.012 + - .003	.430 + - .015	281.00
WAP-1817	M22759/3-1-*	1	817x30	.360 - .380	.144	.014 + - .004	.480 + - .015	358.00
WAP-1045	M22759/3-01-*	0	1045x30	.395 - .425	.113	.014 + - .004	.525 + - .025	436.00
WAP-1330	M22759/3-02-*	00	1330x30	.440 - .475	.089	.014 + - .004	.585 + - .025	554.00

1/ Part No.: The asterisks in the Mil Spec column shall be replaced by color code designators in accordance with MIL-STD-681. Examples: Size 20, white - M22759/3-20-9; white with orange stripe - M22759/3-20-93.
^ Refers to the Finished Wire

MIL-W-22759/4
Conductor: Silver Coated Copper. Insulation: Fluoropolymer, Medium Weight
Jacket: TFE Glass FEP. Voltage Rating: 600V

Part Number	Mil Spec Size	AWG	Strand.	Diam. Stranded Cond. min/max (in)	^Resist. 20°C(ohms/ 1000ft max)	^TFE Jacket Thick. (in)	^Diameter (in)	^Weight (lbs/ 1000ft) (max)
WAR-2219	M22759/4-22-*	22	19x34	.029 - .032	15.100	.009 + - .002	.074 + - .003	5.90
WAR-2019	M22759/4-20-*	20	19x32	.037 - .040	9.190	.009 + - .002	.082 + - .003	7.90
WAR-1819	M22759/4-18-*	18	19x30	.046 - .050	5.790	.010 + - .002	.095 + - .003	11.00
WAR-1619	M22759/4-16-*	16	19x29	.052 - .057	4.520	.010 + - .002	.103 + - .004	13.60
WAR-1419	M22759/4-14-*	14	19x27	.065 - .072	2.880	.010 + - .002	.116 + - .004	18.50
WAR-1237	M22759/4-12-*	12	37x28	.084 - .089	1.900	.010 + - .002	.133 + - .004	26.60
WAR-1037	M22759/4-10-*	10	37x26	.106 - .112	1.190	.010 + - .002	.164 + - .006	41.50
WAR-8133	M22759/4-8-*	8	133x29	.158 - .169	.658	.010 + - .002	.235 + - .007	77.40
WAR-6133	M22759/4-6-*	6	133x27	.198 - .213	.418	.010 + - .002	.282 + - .010	115.00
WAR-4133	M22759/4-4-*	4	133x25	.250 - .268	.264	.012 + - .003	.351 + - .015	184.00
WAR-2665	M22759/4-2-*	2	665x30	.320 - .340	.170	.012 + - .003	.430 + - .015	281.00
WAR-1817	M22759/4-1-*	1	817x30	.360 - .380	.139	.014 + - .004	.480 + - .015	358.00
WAR-1045	M22759/4-01-*	0	1045x30	.395 - .425	.108	.014 + - .004	.525 + - .025	436.00
WAR-1330	M22759/4-02-*	00	1330x30	.440 - .475	.085	.014 + - .004	.585 + - .025	554.00

1/ Part No.: The asterisks in the Mil Spec column shall be replaced by color code designators in accordance with MIL-STD-681. Examples: Size 20, white - M22759/4-20-9; white with orange stripe - M22759/4-20-93.
^ Refers to the Finished Wire

MIL-W-22759/5 (Formerly MS 17411) Heavy Wall. Conductor: Silver Plated Copper. Insulation: Mineral Filled TFE Teflon. Temperature Rating: 200"C (392"F) Voltage Rating: 600V

Part Number	AWG Size	Stranding	Insulation O.D. Min-Max	Nominal Wt. lbs/1000'
WAA-2419	24	19x36	.070 - .080	5.24
WAA-2219	22	19x34	.080 - .090	7.05
WAA-2019	20	19x32	.090 - .100	9.39
WAA-1819	18	19x30	.105 - .115	13.20
WAA-1619	16	19x29	.120 - .130	17.10
WAA-1419	14	19x27	.136 - .150	24.00
WAA-1219	12	19x25	.153 - .167	31.60

MIL-W-22759/6 (Formerly MS 17412) Heavy Wall. Conductor: Nickel Plated Copper. Insulation: Mineral Filled TFE Teflon. Temperature Rating: 260"C (500"F) Voltage Rating: 600V

Part Number	AWG Size	Stranding	Insulation O.D. Min-Max	Nominal Wt. lbs/1000'
WAB-2419	24	19x36	.070 - .080	5.31
WAB-2219	22	19x34	.080 - .090	7.11
WAB-2019	20	19x32	.090 - .100	9.43
WAB-1819	18	19x30	.105 - .115	13.60
WAB-1619	16	19x29	.120 - .130	17.50
WAB-1419	14	19x27	.136 - .150	24.40
WAB-1219	12	19x25	.153 - .167	32.10

MIL-W-22759/7 (Formerly MS 18000) Medium Wall. Conductor: Silver Plated Copper. Insulation: Mineral Filled TFE Teflon. Temperature Rating: 200"C (392"F) Voltage Rating: 600V

Part Number	AWG Size	Stranding	Insulation O.D. Min-Max	Nominal Wt. lbs/1000'
WAC-2419	24	19x36	.060 - .064	3.91
WAC-2219	22	19x34	.071 - .075	5.25
WAC-2019	20	19x32	.080 - .084	7.66
WAC-1819	18	19x30	.090 - .094	10.40
WAC-1619	16	19x29	.099 - .105	13.20
WAC-1419	14	19x27	.112 - .118	18.50
WAC-1219	12	19x25	.131 - .137	26.40

MIL-W-22759/8 (Formerly MS 18001) Medium Wall. Conductor: Nickel Plated Copper. Insulation: Mineral Filled TFE Teflon. Temperature Rating: 260"C (500"F) Voltage Rating: 600V

Part Number	AWG Size	Stranding	Insulation O.D. Min-Max	Nominal Wt. lbs/1000'
WAD-2419	24	19x36	.060 - .064	3.92
WAD-2219	22	19x34	.071 - .075	5.27
WAD-2019	20	19x32	.080 - .084	7.70
WAD-1819	18	19x30	.090 - .094	10.50
WAD-1619	16	19x29	.099 - .105	13.30
WAD-1419	14	19x27	.112 - .118	18.60
WAD-1219	12	19x25	.131 - .137	26.60

MIL-W-22759/9 (Formerly MS 18113) Medium Wall. Conductor: Silver Plated Copper. Insulation: TFE Teflon .015 Nominal Wall Thickness. Temperature Rating: 200"C (392"F) Voltage Rating: 1000V

Part Number	AWG Size	Stranding	Insulation O.D. Min-Max	Nominal Wt. lbs/1000'
WAE-2807	28	7x36	.041 - .045	1.78
WAE-2619	26	19x38	.046 - .050	2.38
WAE-2419	24	19x36	.051 - .055	3.13
WAE-2219	22	19x34	.058 - .062	4.34
WAE-2019	20	19x32	.066 - .070	6.09
WAE-1819	18	19x30	.076 - .080	8.68
WAE-1619	16	19x29	.083 - .087	10.80
WAE-1419	14	19x27	.097 - .103	16.10
WAE-1219	12	19x25	.116 - .124	23.30
WAE-1037	10	37x26	.106 - .112	38.20
WAE-8133	8	133x29	.158 - .169	68.80

MIL-W-22759/10 (Formerly MS 18114) Medium Wall. Conductor: Nickel Plated Copper. Insulation: TFE Teflon .015 Nominal Wall Thickness. Temperature Rating: 260"C (500"F) Voltage Rating: 1000V

Part Number	AWG Size	Stranding	Insulation O.D. Min-Max	Nominal Wt. lbs/1000'
WAF-2807	28	7x36	.041 - .045	1.79
WAF-2619	26	19x38	.046 - .050	2.39
WAF-2419	24	19x36	.051 - .055	3.14
WAF-2219	22	19x34	.058 - .062	4.30
WAF-2019	20	19x32	.066 - .070	6.12
WAF-1819	18	19x30	.076 - .080	8.74
WAF-1619	16	19x29	.083 - .087	10.70
WAF-1419	14	19x27	.097 - .103	16.20
WAF-1219	12	19x25	.116 - .124	23.40
WAF-1037	10	37x26	.106 - .114	38.20
WAF-8133	8	133x29	.158 - .173	68.80

MIL-W-22759/11 (Formerly MS 21985) Standard Wall. Conductor: Silver Plated Copper. Insulation: TFE Teflon .010 Nominal Wall Thickness. Temperature Rating: 200"C (392"F) Voltage Rating: 600V

Part Number	AWG Size	Stranding	Insulation O.D. Min-Max	Nominal Wt. lbs/1000'
WAG-2807	28	7x36	.031 - .035	1.22
WAG-2619	26	19x38	.036 - .040	1.74
WAG-2419	24	19x36	.041 - .045	2.41
WAG-2219	22	19x34	.047 - .051	3.44
WAG-2019	20	19x32	.056 - .060	5.15
WAG-1819	18	19x30	.066 - .070	7.58
WAG-1619	16	19x29	.073 - .077	9.64
WAG-1419	14	19x27	.088 - .092	14.70
WAG-1219	12	19x25	.108 - .114	23.50
WAG-1037	10	37x26	.106 - .112	37.80
WAG-8133	8	133x29	.158 - .169	65.50

MIL-W-22759/12 (Formerly MS 21986) Standard Wall. Conductor: Nickel Plated Copper. Insulation: TFE Teflon .010 Nominal Wall Thickness. Temperature Rating: 260"C (500"F) Voltage Rating: 600V

Part Number	AWG Size	Stranding	Insulation O.D. Min-Max	Nominal Wt. lbs/1000'
WAH-2807	28	7x36	.031 - .035	1.23
WAH-2619	26	19x38	.036 - .040	1.75
WAH-2419	24	19x36	.041 - .045	2.42
WAH-2219	22	19x34	.047 - .051	3.46
WAH-2019	20	19x32	.056 - .060	5.19
WAH-1819	18	19x30	.066 - .070	7.64
WAH-1619	16	19x29	.073 - .077	9.74
WAH-1419	14	19x27	.088 - .092	14.80
WAH-1219	12	19x25	.108 - .114	24.00
WAH-1037	10	37x26	.106 - .114	39.00
WAH-8133	8	133x29	.158 - .173	67.00

MIL-W-22759/16 Standard Wall. Conductor: Tin Plated Copper
Insulation: Tefzel. Temperature Rating: 150"C (302"F) Voltage Rating: 600V

Part Number	AWG Size	Stranding	Insulation O.D. Min-Max	Nominal Wt. lbs/1000'
WAJ-2419	24	19x36	.043 - .047	2.45
WAJ-2219	22	19x34	.050 - .054	3.52
WAJ-2019	20	19x32	.058 - .062	5.18
WAJ-1819	18	19x30	.069 - .073	7.65
WAJ-1619	16	19x29	.077 - .081	9.68
WAJ-1419	14	19x27	.091 - .095	14.50
WAJ-1237	12	37x28	.111 - .117	21.80
WAJ-1037	10	37x26	.136 - .142	34.00
WAJ-8133	8	133x29	.196 - .202	61.50
WAJ-6133	6	133x27	.247 - .253	96.90
WAJ-4133	4	133x25	.308 - .316	152.00
WAJ-2665	2	665x30	.384 - .392	231.00

MIL-W-22759/17 Standard Wall High Strength. Conductor: Silver Plated Copper Alloy. Insulation: Tefzel Temperature Rating: 150"C (302"F) Voltage Rating: 600V

Part Number	AWG Size	Stranding	Insulation O.D. Min-Max	Nominal Wt. lbs/1000'	Min. Breaking Strength - lbs.
WAK-2619	26	19x38	.038 - .042	1.67	14.2
WAK-2419	24	19x36	.043 - .047	2.32	22.4
WAK-2219	22	19x34	.050 - .054	3.40	35.8
WAK-2019	20	19x32	.058 - .062	4.96	58.1

MIL-W-22759/18 Thin Wall. Conductor: Tin Plated Copper. Insulation: Tefzel
Temperature Rating: 150"C (302"F) Voltage Rating: 600V

Part Number	AWG Size	Stranding	Insulation O.D. Min-Max	Nominal Wt. lbs/1000'
WAL-2619	26	19x38	.030 - .034	1.45
WAL-2419	24	19x36	.034 - .038	2.02
WAL-2219	22	19x34	.041 - .045	3.04
WAL-2019	20	19x32	.049 - .053	4.60
WAL-1819	18	19x30	.059 - .063	6.86
WAL-1619	16	19x29	.065 - .069	8.69
WAL-1419	14	19x27	.079 - .083	13.30
WAL-1237	12	37x28	.101 - .105	20.50
WAL-1037	10	37x26	.124 - .128	31.90

MIL-W-22759/19 Thin Wall High Strength
Conductor: Silver Plated Copper Alloy. Insulation: Tefzel
Temperature Rating: 150"C (302"F) Voltage Rating: 600V

Part Number	AWG Size	Stranding	Insulation O.D. Min-Max	Nominal Wt. lbs/1000'	Min. Breaking Strength-lbs
WAM-2619	26	19x38	.030 - .034	1.36	14.2
WAM-2419	24	19x36	.034 - .038	1.92	22.4
WAM-2219	22	19x34	.041 - .045	2.87	35.8
WAM-2019	20	19x32	.049 - .053	4.45	58.1

MIL-W-22759/20
Conductor: Silver Plated Copper Alloy. Insulation: TFE Teflon .015 Nominal Wall Thickness. Temperature Rating: 200"C (392"F) Voltage Rating: 1000V

Part Number	AWG Size	Stranding	Insulation O.D. Min-Max	Nominal Wt. lbs/1000'	Min. Breaking Strength-lbs
WAN-2807	28	7x36	.041 - .045	1.84	8.16
WAN-2619	26	19x38	.046 - .050	2.48	14.20
WAN-2419	24	19x36	.051 - .055	3.23	22.40
WAN-2219	22	19x34	.058 - .062	4.43	35.80
WAN-2019	20	19x32	.066 - .070	6.20	58.10

MIL-W-22759/21
Conductor: Nickel Plated Copper Alloy. Insulation: TFE Teflon .015 Nominal Wall Thickness. Temperature Rating: 260"C (500"F) Voltage Rating: 1000V

Part Number Breaking	AWG Size	Stranding	Insulation O.D.	Nominal Wt.	Min.
WAP-2807	28	7x36	.041 - .045	1.86	8.16
WAP-2619	26	19x38	.046 - .050	2.50	14.20
WAP-2419	24	19x36	.051 - .055	3.26	22.40
WAP-2219	22	19x34	.058 - .062	4.45	35.80
WAP-2019	20	19x32	.066 - .070	6.20	58.10

MIL-W-22759/22
Conductor: Silver Plated Copper Alloy. Insulation: TFE Teflon .010 Nominal Wall Thickness. Temperature Rating: 200"C (392"F) Voltage Rating: 600V

Part Number	AWG Size	Stranding	Insulation O.D. Min-Max	Nominal Wt. lbs/1000'	Min. Breaking Strength-lbs
WAQ-2807	28	7x36	.031 - .035	1.27	8.16
WAQ-2619	26	19x38	.036 - .040	1.84	14.20
WAQ-2419	24	19x36	.041 - .045	2.51	22.40
WAQ-2219	22	19x34	.047 - .051	3.55	35.80
WAQ-2019	20	19x32	.056 - .060	5.19	58.10

MIL-W-22759/23
Conductor: Nickel Plated Copper Alloy. Insulation: TFE Teflon .010 Nominal Wall Thickness. Temperature Rating: 260"C (500"F) Voltage Rating: 600V

Part Number Breaking	AWG Size	Stranding	Insulation O.D.	Nominal Wt.	Min.
WAR-2807	28	7x36	.031 - .035	1.29	8.16
WAR-2619	26	19x38	.036 - .040	1.86	14.20
WAR-2419	24	19x36	.041 - .045	2.55	22.40
WAR-2219	22	19x34	.047 - .051	3.62	35.80
WAR-2019	20	19x32	.056 - .060	5.27	58.10

MIL-W-5086/1
Conductor: Tinned Copper. Insulation: Polyvinyl Chloride (PVC)
Jacket: Nylon. Temperature Rating: 105”C (221”F) Voltage Rating: 600V

Part Number	AWG Size	Stranding	Insulation O.D. Min-Max	Nominal Wt. lbs/1000’
WAS-2219	22	19x34	.064 - .072	4.40
WAS-2019	20	19x32	.074 - .082	6.30
WAS-1819	18	19x30	.084 - .092	8.60
WAS-1619	16	19x29	.094 - .102	10.70
WAS-1419	14	19x27	.112 - .122	16.40
WAS-1237	12	37x28	.132 - .142	24.70
WAS-1037	10	37x26	.154 - .164	36.50

MIL-W-5086/2 - Conductor: Tinned Copper. Insulation: Polyvinyl Chloride (PVC) Impregnated Fiberglass Braid Jacket: 22 AWG - 10 AWG, Clear Nylon; 8 AWG - 4/0 AWG, Impregnated Braided Nylon. Temperature Rating: 105”C (221”F) Voltage Rating: 600V

Part Number	AWG Size	Stranding	Insulation O.D. Min-Max	Nominal Wt. lbs/1000’
WAT-2219	22	19x34	.070 - .080	4.70
WAT-2019	20	19x32	.080 - .090	6.80
WAT-1819	18	19x30	.090 - .100	9.50
WAT-1619	16	19x29	.100 - .110	11.90
WAT-1419	14	19x27	.118 - .122	18.30
WAT-1237	12	37x28	.136 - .140	26.00
WAT-1037	10	37x26	.182 - .196	44.00
WAT-8133	8	133x29	.233 - .247	70.00
WAT-6133	6	133x27	.286 - .300	110.00
WAT-4133	4	133x25	.345 - .365	165.00
WAT-2665	2	665x30	.415 - .435	250.00
WAT-1817	1	817x30	.460 - .480	305.00
WAT-1045	1/0	1045x30	.510 - .540	392.00
WAT-1330	2/0	1330x30	.575 - .605	493.00
WAT-1661	3/0	1661x30	.635 - .665	604.00
WAT-2104	4/0	2104x30	.705 - .735	770.00

MIL-W-22759/32
Conductor: Tinned Copper, Zelrad 150-S. Insulation: Fluoropolymer Cross-linked Modified ETFE Single Insulation. Temperature Rating: 150”C. Voltage Rating: 600V

Part Number	Mil Spec	Wire Size	Resist 20C (ohms/1000ft)	Nom. Diameter (in/mm)	Max. Weight (lbs/1000ft)/(kgs/km)
WZA-3007	Mil-W-22759/32	30 7/38	108.4	.024/.610	.66/.98
WZA-2807	Mil-W-22759/32	28 7/36	68.6	.027/.686	.91/1.35
WZA-2619	Mil-W-22759/32	26 19/38	41.3	.032/.813	1.4/2.08
WZA-2419	Mil-W-22759/32	24 19/36	26.2	.037/.940	2.0/2.98
WZA-2219	Mil-W-22759/32	22 19/34	16.2	.043/1.092	2.8/4.17
WZA-2019	Mil-W-22759/32	20 19/32	9.88	.050/1.270	4.3/6.40
WZA-1819	Mil-W-22759/32	18 19/30	6.23	.060/1.524	6.5/9.67
WZA-1619	Mil-W-22759/32	16 19/29	4.81	.068/1.727	8.3/12.35
WZA-1419	Mil-W-22759/32	14 19/27	3.06	.085/2.159	13.0/19.35
WZA-1237	Mil-W-22759/32	12 37/28	2.02	.103/2.616	19.7/29.32

MIL-W-22759/33. Conductor: Silver Coated High Strength Copper Alloy Zelrad 200-S Insulation: Fluoropolymer Cross-linked Modified ETFE Single Insulation. Temperature Rating: 200”C Voltage Rating: 600V

Part Number	Mil Spec	Wire Size	Resist 20C (ohms/1000ft)	Nom. Diameter (in/mm)	Max. Weight (lbs/1000ft)/(kgs/km)
WZB-3007	Mil-W-22759/33	30 7/38	117.4	.024/.610	.66/.98
WZB-2807	Mil-W-22759/33	28 7/36	74.4	.027/.686	.91/1.35
WZB-2619	Mil-W-22759/33	26 19/38	44.8	.032/.813	1.4/2.08
WZB-2419	Mil-W-22759/33	24 19/36	28.4	.037/.940	2.0/2.98
WZB-2219	Mil-W-22759/33	22 19/34	17.5	.043/1.092	2.9/4.32
WZB-2019	Mil-W-22759/33	20 19/32	10.7	.050/1.270	4.4/6.55

MIL-W-22759/34
Conductor: Tinned Copper Zelrad 150-D. Insulation: Fluoropolymer Cross-linked Modified ETFE Dual Insulation. Temperature Rating: 150”C Voltage Rating: 600V

Part Number	Mil Spec	Wire Size	Resist 20°C (ohms/1000ft)	Nom. Diameter (in/mm)	Max. Weight (lbs/1000)	(kg/km)
WZC-2419	M22759/34-24-*	24 19/36	26.200	.045/1.143	2.3	3.42
WZC-2219	M22759/34-22-*	22 19/34	16.200	.050/1.270	3.2	4.76
WZC-2019	M22759/34-20-*	20 19/32	9.880	.058/1.473	4.7	6.99
WZC-1819	M22759/34-18-*	18 19/30	6.230	.070/1.778	7.2	10.71
WZC-1619	M22759/34-16-*	16 19/29	4.810	.077/1.956	9.0	13.39
WZC-1419	M22759/34-14-*	14 19/27	3.060	.094/2.388	13.8	20.54
WZC-1237	M22759/34-12-*	12 37/28	2.020	.111/2.819	20.5	30.51
WZC-1037	M22759/34-10-*	10 37/26	1.260	.134/3.404	32.4	48.21
WZC-8133	M22759/34-8-*	8 133/29	.701	.195/4.953	60.3	89.73
WZC-6133	M22759/34-6-*	6 133/27	.445	.241/6.121	94.5	140.63
WZC-4133	M22759/34-4-*	4 133/25	.280	.310/7.874	150.0	223.22
WZC-2665	M22759/34-2-*	2 665/30	.183	.405/10.287	239.0	355.66
WZC-1817	M22759/34-1-*	1 817/30	.149	.445/11.303	290.0	431.55
WZC-1045	M22759/34-01-*	1/0 1045/30	.116	.485/12.319	377.0	561.01
WZC-1336	M22759/34-02-*	2/0 1330/30	.091	.545/13.843	487.0	724.70

(*) The asterisks in the part number columns to be replaced by numeric color code designations.

MIL-W-22759/35. Conductor: Silver Coated High Strength Copper Alloy, Zelrad 200-D Insulation: Fluoropolymer Cross-linked Modified ETFE Dual InsulationTemperature Rating: 200”C Voltage Rating: 600V

Part Number	Mil Spec	Wire Size	Resist 20°C (ohms/1000ft)	Nom. Diameter (in/mm)	Max. Weight (lbs/1000)	(kg/km)
WZD-2619	M22759/35-26-*	26 19/38	44.8	.040/1.016	1.7	2.53
WZD-2419	M22759/35-24-*	24 19/36	28.4	.045/1.143	2.3	3.42
WZD-2219	M22759/35-22-*	22 19/34	17.5	.050/1.270	3.3	4.91
WZD-2019	M22759/35-20-*	20 19/32	10.7	.058/1.473	4.8	7.14

(*) The asterisks in the part number columns to be replaced by numeric color code designations.

MIL-W-22759/41
Conductor: Nickel Coated Copper Zelrad 200-D. Insulation: Fluoropolymer Cross-linked Modified ETFE Dual Insulation. Temperature Rating: 200”C Voltage Rating: 600V

Part Number	Mil Spec	Wire Size	Resist 20°C (ohms/1000ft)	Nom. Diameter (in/mm)	Max. Weight (lbs/1000)	(kg/km)
WZE-2619	M22759/41-26-*	26 19/38	42.20	.040/1.016	1.7	2.53
WZE-2419	M22759/41-24-*	24 19/36	25.90	.045/1.143	2.3	3.42
WZE-2219	M22759/41-22-*	22 19/34	16.00	.050/1.270	3.2	4.76
WZE-2019	M22759/41-20-*	20 19/32	9.77	.058/1.473	4.7	6.99
WZE-1819	M22759/41-18-*	18 19/30	6.10	.070/1.778	7.2	10.71
WZE-1619	M22759/41-16-*	16 19/29	4.76	.077/1.956	9.0	13.39
WZE-1419	M22759/41-14-*	14 19/27	3.00	.094/2.388	13.8	20.54
WZE-1237	M22759/41-12-*	12 37/28	1.98	.111/2.819	20.5	30.51
WZE-1037	M22759/41-10-*	10 37/26	1.24	.134/3.404	32.4	48.21
WZE-8133	M22759/41-8-*	8 133/29	.694	.195/4.953	64.2	95.54
WZE-6133	M22759/41-6-*	6 133/27	.436	.241/6.121	96.8	144.05
WZE-4133	M22759/41-4-*	4 133/25	.275	.310/7.874	163.0	242.56
WZE-2665	M22759/41-2-*	2 665/30	.177	.405/10.287	246.0	366.07
WZE-1817	M22759/41-1-*	1 817/30	.144	.445/11.303	314.0	467.26
WZE-1045	M22759/41-01-*	1/0 1045/30	.113	.485/12.319	421.0	626.49
WZE-1330	M22759/41-02-*	2/0 1330/30	.089	.545/13.843	518.0	770.84

(*) The asterisks in the part number columns to be replaced by numeric color code designations.

MIL-W-22759/43
Conductor: Silver Coated Copper Zelrad 200-D. Insulation: Fluoropolymer Cross-linked Modified ETFE Dual Insulation. Temperature Rating: 200”C Voltage Rating: 600V

Part Number	Mil Spec	Wire Size	Resist 20C (ohms/1000ft)	Nom. Diameter (in/mm)	Max. Weight (lbs/1000)	(kg/km)
WZG-2619	M22759/43-26-*	26 19/38	38.400	.040 - 1.016	1.7	2.53
WZG-2419	M22759/43-24-*	24 19/36	24.300	.045 - 1.143	2.3	3.42
WZG-2219	M22759/43-22-*	22 19/34	15.100	.050 - 1.270	3.2	4.76
WZG-2019	M22759/43-20-*	20 19/32	9.190	.058 - 1.473	4.7	6.99
WZG-1819	M22759/43-18-*	18 19/30	5.790	.070 - 1.778	7.2	10.71
WZG-1619	M22759/43-16-*	16 19/29	4.520	.077 - 1.956	9.0	13.39
WZG-1419	M22759/43-14-*	14 19/27	2.880	.094 - 2.388	13.8	20.54
WZG-1237	M22759/43-12-*	12 37/28	1.900	.111 - 2.819	20.5	30.51
WZG-1037	M22759/43-10-*	10 37/26	1.190	.134 - 3.404	32.4	48.21
WZG-8133	M22759/43-8-*	8 133/29	.658	.195 - 4.953	61.9	92.11
WZG-6133	M22759/43-6-*	6 133/27	.418	.241 - 6.121	94.5	140.63
WZG-4133	M22759/43-4-*	4 133/25	.264	.310 - 7.874	158.0	235.12
WZG-2665	M22759/43-2-*	2 665/30	.170	.405 - 10.287	239.0	355.66
WZG-1817	M22759/43-1-*	1 817/30	.139	.445 - 11.303	305.0	453.87
WZG-1045	M22759/43-01-*	1/0 1045/30	.108	.485 - 12.319	385.0	572.92
WZG-1336	M22759/43-02-*	2/0 1330/30	.085	.545 - 13.843	487.0	724.70

(*) The asterisks in the part number columns to be replaced by numeric color code designations.

MIL-W-22759/44
Conductor: Silver Coated Copper Zelrad 200-S. Insulation: Fluoropolymer Cross-linked Modified ETFE Single Insulation. Temperature Rating: 200”C Voltage Rating: 600V

Part Number	Mil Spec	Wire Size	Resist 20C (ohms/1000ft)	Nom. Diameter (in/mm)	Max. Weight (lbs/1000)	(kg/km)
WZH-2807	M22759/44-28-*	28 7/36	63.80	.027 - .686	.91	1.35
WZH-2619	M22759/44-26-*	26 19/38	38.40	.032 - .813	1.40	2.08
WZH-2419	M22759/44-24-*	24 19/36	24.30	.037 - .940	2.00	2.98
WZH-2219	M22759/44-22-*	22 19/34	15.10	.043 - 1.092	2.80	4.17
WZH-2019	M22759/44-20-*	20 19/32	9.19	.050 - 1.270	4.30	6.40
WZH-1819	M22759/44-18-*	18 19/30	5.79	.060 - 1.524	6.50	9.67
WZH-1619	M22759/44-16-*	16 19/29	4.52	.068 - 1.727	8.30	12.35
WZH-1419	M22759/44-14-*	14 19/27	2.88	.085 - 2.159	13.00	19.35
WZH-1237	M22759/44-12-*	12 37/28	1.90	.103 - 2.616	19.70	29.32

(*) The asterisks in the part number columns to be replaced by numeric color code designations.

MIL-W-16878/1, Type B/N Shielded and Jacketed Cables
Conductor: Tinned Copper. *Insulation: .010 PVC with Clear Nylon Jacket. Shield: Braided Tinned Copper. Jacket: Extruded PVC, White Preferred. Temperature Rating: 105"C (221"F). Voltage Rating: 600V

Part Number	No. of Conductors	AWG Size	Stranding	Cable O.D. Nominal	Cable Wt. Nominal
CNA-3007-01	1	30	7x38	.080	6.3
CNA-3007-02	2	30	7x38	.122	9.9
CNA-3007-03	3	30	7x38	.130	12.3
CNA-2807-01	1	28	7x36	.082	6.6
CNA-2807-02	2	28	7x36	.128	10.9
CNA-2807-03	3	28	7x36	.136	13.4
CNA-2619-01	1	26	19x38	.088	7.1
CNA-2619-02	2	26	19x38	.138	13.2
CNA-2619-03	3	26	19x38	.147	16.0
CNA-2419-01	1	24	19x36	.092	8.3
CNA-2419-02	2	24	19x36	.152	15.3
CNA-2419-03	3	24	19x36	.162	20.0
CNA-2419-04	4	24	19x36	.179	24.3
CNA-2219-01	1	22	19x34	.099	10.4
CNA-2219-02	2	22	19x34	.168	18.7
CNA-2219-03	3	22	19x34	.178	24.6
CNA-2219-04	4	22	19x34	.200	30.9
CNA-2019-01	1	20	19x32	.108	12.4
CNA-2019-02	2	20	19x32	.186	24.1
CNA-2019-03	3	20	19x32	.196	32.0
CNA-2019-04	4	20	19x32	.218	40.0
CNA-1819-01	1	18	19x30	.120	16.4
CNA-1819-02	2	18	19x30	.210	31.6
CNA-1819-03	3	18	19x30	.227	42.3
CNA-1619-01	1	16	19x29	.133	19.0
CNA-1619-02	2	16	19x29	.232	38.1
CNA-1619-03	3	16	19x29	.249	51.4

*Standard color code: (1st) White, (2nd) Black, (3rd) Red, (4th) Green

MIL-W-16878/4, Type E Shielded and Jacketed Cables, Conductor: Silver Plated Copper. *Insulation: TFE .010 Nominal Wall Thickness, Shield: Braided Silver Plated Copper. Jacket: Tape Wrapped TFE (STJ) or Extruded FEP (SXE), White Preferred. Temperature Rating: 200"C (392"F) Voltage Rating: 600V, Add E to achieve extruded P/N

Part Number	No. of Conductors	AWG Size	Stranding	Cable O.D. Nominal	Cable Wt. Nominal
CEA-3207-01	1	32	7x40	.061	4.3
CEA-3207-02	2	32	7x40	.101	8.9
CEA-3207-03	3	32	7x40	.104	10.1
CEA-3207-04	4	32	7x40	.113	11.9
CEA-3007-01	1	30	7x38	.070	5.9
CEA-3007-02	2	30	7x38	.107	10.7
CEA-3007-03	3	30	7x38	.112	11.7
CEA-3007-04	4	30	7x38	.121	13.1
CEA-2807-01	1	28	7x36	.073	5.8
CEA-2807-02	2	28	7x36	.113	11.1
CEA-2807-03	3	28	7x36	.119	13.1
CEA-2807-04	4	28	7x36	.128	15.9
CEA-2619-01	1	26	19x38	.077	7.9
CEA-2619-02	2	26	19x38	.121	13.5
CEA-2619-03	3	26	19x38	.127	15.8
CEA-2619-04	4	26	19x38	.138	18.6
CEA-2419-01	1	24	19x36	.087	8.9
CEA-2419-02	2	24	19x36	.131	16.2
CEA-2419-03	3	24	19x36	.138	19.5
CEA-2419-04	4	24	19x36	.149	22.8
CEA-2219-01	1	22	19x34	.093	10.5
CEA-2219-02	2	22	19x34	.143	19.5
CEA-2219-03	3	22	19x34	.151	23.7
CEA-2219-04	4	22	19x34	.163	28.0
CEA-2019-01	1	20	19x32	.101	13.3
CEA-2019-02	2	20	19x32	.159	24.8
CEA-2019-03	3	20	19x32	.168	30.8
CEA-2019-04	4	20	19x32	.183	37.7
CEA-1819-01	1	18	19x30	.114	18.5
CEA-1819-02	2	18	19x30	.181	31.4
CEA-1819-03	3	18	19x30	.192	41.5
CEA-1819-04	4	18	19x30	.210	48.5
CEA-1619-01	1	16	19x29	.123	20.8
CEA-1619-02	2	16	19x29	.203	38.6
CEA-1619-03	3	16	19x29	.216	49.5
CEA-1619-04	4	16	19x29	.237	59.9
CEA-1419-01	1	14	19x27	.137	26.5
CEA-1419-02	2	14	19x27	.231	51.8
CEA-1419-03	3	14	19x27	.246	68.5
CEA-1419-04	4	14	19x27	.271	90.0

*Standard color code: (1st) White, (2nd) Black, (3rd) Red, (4th) Green

MIL-C-7078C AIRCRAFT CABLES

The MIL-C-7078 specification consists of a series of specification or "slash" sheets, covering electrical cable typically used in aerospace applications. The cables may be ordered unshielded, unjacketed, just a shield, or shielded and jacketed. Each slash sheet will specify exactly what type insulation and outer covering. Cable constructions ordered to MIL-C-7078 will have to be color coded and identified in accordance with the specification. Part numbers are coded as stated below:

M7078/X – YY – Z

- Z: Number of basic wires in cable
- YY: Size of individual wires
- X: Number of specification sheet

IWC Part Number	Description	Voltage	Temperature
MCA-M7078/2	Basic wires are to M5086/1, TPC Shield	600 Volt	105°C
MCA-M7078/3	Basic wires are to M5086/1, TPC Shield, Nylon Jacket	600 Volt	105°C
MCA-M7078/4	Basic wires are to M5086/2, TPC Shield	600 Volt	105°C
MCA-M7078/5	Basic wires are to M5086/2, TPC Shield, Nylon Jacket	600 Volt	105°C

MIL-C-27500 AIRCRAFT CABLES

The MIL-27500 covers the requirement for aerospace electrical use and other applications for which its performance characteristics are suitable. The cable constructions are defined by using a combination of letters and digits to describe the cable build-up.

Types

Unjacketed: 2 to 7 color coded wires, spirally laid without an overall outer jacket.
Jacketed: 2 to 7 color coded wires, spirally laid with an overall outer jacket.

Types

Shielded: A single wire, or 2 to 7 color coded wires spirally laid, with an overall jacket.
Shielded and Jacketed: A single wire, or 2 to 7 color coded wires spirally laid, with an overall shield(s) and jacket.

Cable Designation Method

M27500	-	22	VA	3	S	6
Cable specification	Identification method	Wire Size (one size per cable)	Basic Wire spec.	No. of wires per cable	Shield material	Jacket material

Example: M27500-22VA3S6

- 22: 22 AWG
- VA: MIL-W 22759/5
- 3: Three conductors
- S: Silver-coated copper
- 6: White TFE

BASIC WIRES*

Symbol	Wire Specification
A	MIL-W-5086/1
B	MIL-W-5086/2
H	MIL-W-8777, MS25471
F	MIL-W-8777, MS27110
EA	MIL-W-22759/1
E	MIL-W-22759/2
RA	MIL-W-22759/3
RB	MIL-W-22759/4
VA	MIL-W-22759/5
WA	MIL-W-22759/6
SA	MIL-W-22759/7
TA	MIL-W-22759/8
LE	MIL-W-22759/9
LH	MIL-W-22759/10
RC	MIL-W-22759/11
RE	MIL-W-22759/12
TE	MIL-W-22759/16
TF	MIL-W-22759/17
TG	MIL-W-22759/18
TH	MIL-W-22759/19
SB	MIL-W-22759/32
SC	MIL-W-22759/33
SD	MIL-W-22759/34
SE	MIL-W-22759/35
SM	MIL-W-22759/41
SN	MIL-W-22759/42
SP	MIL-W-22759/43
JA	MIL-W-25038/1
MH	MIL-W-81044/9
ML	MIL-W-81044/12

SHIELD MATERIAL

Symbol	Shield Material	Recommended Temp. Limit	Dual Shield Symbol
U	No shield		
T	Tin coated copper	150°C (302°F)	V
S	Silver-coated copper	200°C (392°F)	W
N	Nickel-coated copper	260°C (500°F)	Y
F	Stainless steel	400°C (752°F)	Z
C	Nickel-clad copper	400°C (752°F)	R
M	Silver-coated high strength copper alloy	200°C (392°F)	K
P	Nickel-coated high strength copper alloy	260°C (500°F)	L

* All of the other MIL-W-22759 wires are available as well as MIL-W-5086, MIL-W-81381 and MIL-W-81044.

JACKET MATERIAL

Outer Jacket Symbol	Material	Recommended Temp. Limit
00	No jacket	
01	Extruded white PVC	90°C (194°F)
02	Extruded clear nylon	105°C (221°F)
05	Extruded clear FEP	200°C (392°F)
06	Taped white TFE	260°C (500°F)
07	White TFE coated glass braid impregnated w/TFE finisher over TFE tape	260°C (500°F)
08	White, Crosslinked, Polyvinylidene Flouride (PVDF)	
09	Extruded white FEP	200°C (392°F)
11	Natural polyimide combined w/clear FEP tape wrapped and heat sealed w/FEP outer surface	200°C (392°F)
12	Natural polyimide combined w/FEP tape wrapped and heat sealed w/polyimide outer surface	200°C (392°F)
14	Extruded white Tefzel	150°C (302°F)
15	Extruded clear Tefzel	150°C (302°F)
17	White extruded PFA	135°C (275°F)
18	Clear extruded PFA	260°C (500°F)
	Polyester tape	Barrier layer only
	Polyimide tape	Barrier layer only
	Aromatic polyamide tape	Barrier layer only
23	White, Crosslinked, Modified, Ethylene-tetrafluoroethylene Copolymer (XLETFE)	

CABLE IDENTIFICATION: Finished cable that consists of cabled conductors without outer covering (shield or jacket) shall be identified with a printed marking applied to the surface of one basic wire. Finished cable that consists of cabled conductors with an outer covering (shield or jacket) shall be identified by means of a printed continuous tape under the shield or jacket; or imprinted on insulation wire No. 1.

COLOR CODE: The insulation of wire used in the cable shall be white with colored spiral stripes; or at the option of the manufacturer, be solid color as shown below.

NUMBER OF WIRES IN CABLE	COLOR OF HELICAL STRIPE OR INSULATION						
	WIRE NUMBER						
	1	2	3	4	5	6	7
1	White						
2	White	Blue					
3	White	Blue	Orange				
4	White	Blue	Orange	Green			
5	White	Blue	Orange	Green	Red		
6	White	Blue	Orange	Green	Red	Black	
7	White	Blue	Orange	Green	Red	Black	Yellow

MIL-C-13486/1 CABLE
Special Purpose, Electrical: Low Tension, Heavy duty, Single-conductor, Unshielded.

IWC Part Number	Wire Size	Conductor	Diameter of Stranded Conductor, mils (max)	Finished Wire Diameter (inches)	Net Copper Weight (lbs/M)
M13486/1-1	20	10 x 30	41.0	115 + .010	3.04
M13486/1-2	18	16 x 30	52.0	130 + .010	4.78
M13486/1-3	16	19 x 29	76.0	135 + .010	7.37
M13486/1-4	16	19 x 29	61.0	160 + .010	7.37
M13486/1-5	14	19 x 27	61.0	160 + .010	11.75
M13486/1-6	14	19 x 27	76.0	235 + .010	11.75
M13486/1-7	12	19 x 25	96.0	235 + .010	18.69
M13486/1-8	10	105 x 30	132.0	300 + .010	32.40
M13486/1-9	8	133 x 29	176.0	360 + .010	51.92
M13486/1-10	6	133 x 27	218.0	422 + .010	83.10
M13486/1-11	4	133 x 25	272.0	485 + .010	133.00
M13486/1-12	2	670 x 30	345.0	610 + .010	212.90
M13486/1-14	0	1045 x 30	432.0	672 + .010	330.00
M13486/1-15	00	1332 x 30	490.0	730 + .010	419.20
M13486/1-17	0000		615.0	865 + .020	664.77

Requirements:
Dimensions and configuration. See figure 1 and table.
Dimensions and configuration (optional construction): See figure 2 and table.
Insulation and sheath material Neoprene.
Optional construction applicable to M13486/1-1 through M13486/1-10.

Figure 1

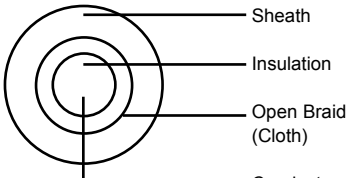
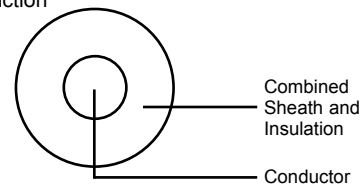
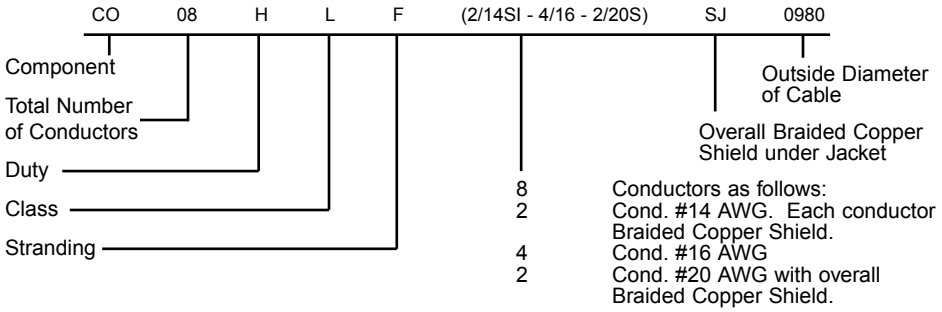


Figure 2
Optional Construction



MIL-C-3432 300 & 600 VOLT POWER & CONTROL CABLE

Military specification covering portable power and control cable. Power cable being limited to 2, 3 & 4 conductors, #8 AWG through #500 MCM. Control cable can be shielded, unshielded or any combination thereof. What follows is a brief description of how to designate cable to your specific requirements.



		Duty of Cable	Voltage	Jacket Thickness (Nom. Range)
	L	Light	300	0.020 to 0.050
DUTY	**M**	Medium	600	0.027 to 0.172
	H	Heavy	600	0.035 to 0.203

Application of Cable

	G	"General purpose, medium low temperature"
CLASS	**O**	"Oil resistant, medium low temperature"
	L	"Low temperature, heat resistant"
	D	"Low temperature, oil resistant, heat resistant"

Flexibility

	S	Semi-Flexible
STRANDING	**F**	Flexible
	E	Extra-Flexible

CONDUCTOR DATA

The number of individual conductors of the same size, followed by a slant line and followed by the number indicating the size or AWG.

Shields

S Indicates overall shield of a group of conductors.

SI Indicates each conductor of that group has an individual shield.

Example: (3/20SI x 2 - 4/16S)

Indicates 2 Groups of 20 AWG conductors with each conductor with an individual braided shield, cabled with 4 conductors of 16 AWG with an overall braided copper shield.

Example:

CO-18 HLF (3/20 x 4 - 3/18 x 3/16)
1040 +/- 0.025

Indicates an 18 conductor, Heavy Duty, Heat Resistant Flexible cable with 4 Triples, each Triple composed of 3 Conductors of #20 AWG twisted together, one Triple composed of 3#18 AWG Conductors and 3 #16 AWG Conductors. The cable has an outside diameter of 1.040 inch and a tolerance of +/- 0.025 inches.

Lightweight - MIL-W-81044/12
Conductor: Stranded Tinned Copper and Silver Plated High Strength Alloy Insulation: Extruded polyalkene with an outer jacket of polyvinylidene fluoride both irradiation cross-linked for extra ruggedness and abrasion resistance. Temperature Rating: 150"C

Part Number	AWG Size	Stranding	Diam. Stranded Conductor (in)min/max	Resistance 20C (ohms/1000ft)	Finished Wire Diameter (Inches)	Nom.Weight (lbs/1000ft)
WXA-3007	30	7x38	.011 - .013	108.40	.027 + - .002	.67
WXA-2807	28	7x36	.014 - .016	68.60	.030 + - .002	.91
WXA-2619	26	19x38	.018 - .021	41.30	.034 + - .002	1.30
WXA-2419	24	19x36	.023 - .026	26.20	.040 + - .002	2.00
WXA-2219	22	19x34	.029 - .033	16.20	.047 + - .002	2.90
WXA-2019	20	19x32	.037 - .041	9.88	.055 + - .002	4.40
WXA-1819	18	19x30	.046 - .051	6.23	.065 + - .002	6.80
WXA-1619	16	19x29	.052 - .058	4.81	.072 + - .003	8.50
WXA-1419	14	19x27	.065 - .073	3.06	.089 + - .004	13.40
WXA-1237	12	37x28	.084 - .090	2.02	.108 + - .004	20.70

Mediumweight - MIL-W-81044/9
Conductor: Stranded Tinned Copper and Silver Plated High Strength Alloy
Insulation: Extruded polyalkene with an outer jacket of polyvinylidene fluoride both irradiation cross-linked for extra ruggedness and abrasion resistance.
Temperature Rating: 150"C

Part Number	AWG Size	Stranding	Diam. Stranded Conductor (in)min/max	Resistance 20C (ohms/1000ft)	Finished Wire Diameter (Inches)	Nom.Weight (lbs/1000ft)
WXB-2419	24	19x36	.023 - .026	26.200	.054 + - .002	2.5
WXB-2219	22	19x34	.029 - .033	16.200	.062 + - .003	3.7
WXB-2019	20	19x32	.037 - .041	9.880	.070 + - .003	5.3
WXB-1819	18	19x30	.046 - .051	6.230	.080 + - .003	7.7
WXB-1619	16	19x29	.052 - .058	4.810	.089 + - .004	9.6
WXB-1419	14	19x27	.065 - .073	3.060	.108 + - .004	14.8
WXB-1237	12	37x28	.084 - .090	2.020	.126 + - .004	21.6
WXB-1037	10	37x26	.106 - .114	1.260	.155 + - .005	34.0
WXB-8133	8	133x29	.158 - .173	0.701	.214 + - .006	59.7
WXB-6133	6	133x27	.198 - .217	0.445	.264 + - .007	91.4
WXB-4133	4	133x25	.250 - .274	0.280	.320 + - .008	145.0
WXB-2665	2	665x30	.320 - .340	0.183	.400 + - .012	227.0
WXB-01045	0	1045x30	.405 - .425	0.116	.490 + - .016	347.0

Irradiated High Voltage PVC Wire
UL Style 3239. Conductor: Soft annealed tin-plated copper with a tinned overcoat
Insulation: Irradiated PVC to UL 3239 and VW-1 flame test replacement
Temperature Rating: 105"C. Applications: Internal wiring of TV receivers, CRT's and other electronic equipment where high voltage is present.

Part Number	AWG Size*	Stranding	Wall Thickness	Nominal O.D.	D.C. Voltage
WSA-2215	22	7x30	.035	.103	15KV
WSA-2015	20	7x012	.035	.108	15KV
WSA-1815	18	7x0152	.035	.120	15KV
WSA-1615	16	7x0192	.035	.130	15KV
WSA-2220	22	7x30	.050	.136	20KV
WSA-2020	20	7x0121	.050	.142	20KV
WSA-1820	18	7x0152	.050	.154	20KV
WSA-2225	22	7x30	.055	.146	25KV
WSA-2025	20	7x0121	.055	.152	25KV
WSA-1825	18	7x0152	.055	.164	25KV
WSA-1625	16	7x0192	.055	.174	25KV
WSA-2230	22	7x30	.060	.158	30KV
WSA-2030	20	7x0121	.060	.164	30KV
WSA-1830	18	7x0152	.060	.176	30KV
WSA-2240	22	7x30	.075	.178	40KV
WSA-2040	20	7x0121	.075	.184	40KV
WSA-1840	18	7x0152	.075	.196	40KV

*AWG 14 thru 2 available. Consult Factory

RG COAXIAL CABLES

RG Jacket Types & Operating Temperature Ranges

TYPE I (MIL-C-17)
Description: Black Polyvinyl Chloride.
Characteristics: Excellent weathering and abrasion properties, but is of the contaminating type and will cause cable attenuation to increase with age. Can be used for direct burial.
Temperature Range: ”C: -40 to +80

TYPE II (JAN-C-17A)
Description: Gray Polyvinyl Chloride.
Characteristics: A semi-noncontaminating jacket.
Temperature Range: ”C: -25 to +80

TYPE IIA (MIL-C-17)
Description: Black or Gray Polyvinyl Chloride.
Characteristics: Noncontaminating. Good weathering and abrasion resistant properties. Can be used for direct burial.
Temperature Range: ”C: Under .25" OD, -55 to +90; Over .25" OD -40 to +90

TYPE IIIA (MIL-C-17)
Description: Black Polyethylene.
Characteristics: Moisture resistant, abrasion resistant, defies ultra violet damage. Noncontaminating, recommended for direct burial..
Temperature Range: ”C: -55 to +85

TYPE IV (MIL-C-17)
Description: Black Synthetic Rubber.
Characteristics: This jacket material is used only on high voltage pulse cables. The basic material is polymerized chloroprene.
Temperature Range: ”C: Under .50" OD, -55 to +80; Over .50" OD, -40 to +80

TYPE V (MIL-C-17)
Description: Fiberglass Braid.
Characteristics: Impregnated with silicone varnish to provide abrasion resistance and a moisture seal.
Temperature Range: ”C: -55 to +250

TYPE VI (MIL-C-17)
Description: Silicone Rubber Dacron Braid
Characteristics: Two wraps of silicone rubber impregnated fiberglass tape which is fused into a homogeneous layer. A dacron braid is applied, followed by a high temperature fluorocarbon lacquer.
Temperature Range: ”C: -55 to +175

TYPE VII (MIL-C-17)
Description: Teflon (Polytetrafluordethyene).
Characteristics: Either extruded or tape wrapped. Withstands high temperatures, chemically inert, insoluble in liquids and gases.
Temperature Range: ”C: -55 to +75

TYPE VIII (MIL-C-17)
Description: Synthetic Rubber.
Characteristics: This material is a polychloroprene compound and is used with only a few pulse cables. Its primary use is as a jacket material for multiconductor cables.
Temperature Range: ”C: -55 to +75

TYPE IX (MIL-C-17)
Description: Teflon (Fluorinated Ethylene Propylene)
Characteristics: Excellent weathering properties and chemically inert. Maximum operating temperature of 200”C
Temperature Range: ”C: -55 to +200

Construction — Electrical Parameters

RG/U NO.	Armor OD/	Jkt. OD/ Type	Shield Out/In	Dielec. OD/Type	Center Cond.	Lbs/ 1000’	Nom. Imped. Ohms	Nom. Cap. mmfd/ft.	Max. Op. Volt. (Rms)	V.P %	ENGINEERING DATA
5/U		.332* I	C/C	.185P	16C	83	52.5	28.5	3000	65.9	
5A/U		.338* II	S/S	.181P	16S	83	50.5	28.5	3000	65.9	Replaced 212/U
5B/U		.328* IIa	S/S	.181P	16S	83	50.0	28.5	3000	65.9	Now designated 212/U
6A/U		.332* IIa	C/S	.185P	21CW	80	75.0	20.0	2700	65.9	Small video cable
7/U		.370* I	/C	.250ASP	19C	80	97.0	12.5	1000	84.0	Replaced by 63B/U
8/U		.405* I	/C	.285P	7/21C	105	52.0	29.5	5000	65.9	
8A/U		.405* IIa	/C	.285P	7/21C	105	52.0	29.5	5000	65.9	Now designated 213/U
9/U		.402* II Grey	C/S	.280P	7/21S	128	51.0	30.0	5000	65.9	
9A/U		.420* II Grey	S/S	.280P	7/21S	128	51.0	30.0	5000	65.9	
9B/U		.405* IIa	S/S	.280P	7/21S	127	50.0	30.0	5000	65.9	Now designated as 214/U
10A/U	.475*	.405 IIa	/C	.285P	7/21C	129	52.0	29.5	5000	65.9	84/U w/ armor now desig. as 215/U
11/U		.405* I	/C	.285P	7/26TC	92	75.0	20.5	5000	65.9	Medium flexible video cable
11A/U		.405* IIa	/C	.285P	7/26T	92	75.0	20.5	5000	65.9	
12A/U	.475*	.405 IIa	/C	.285P	7/26TC	114	75.0	20.5	5000	65.9	11A/U with armor
13/U		.420* I	C/C	.280P	7/26TC	121	74.0	20.5	5000	65.9	
13A/U		.420* IIa	C/C	.280P	7/26TC	121	74.0	20.5	5000	65.9	Now designated as 216/U
14A/U		.545* IIa	C/C	.370P	10C	205	52.0	29.5	7000	65.9	Now designated as 217/U
15/U		.545* I	C/C	.370P	15CW	197	75.0	20.5	5000	65.9	Replaced by IIA/U & 12A/U
17A/U		.870* IIa	/C	.680P	.188C	460	52.0	29.5	11,000	65.9	Now designated as 218/U
18/U	.945*	.870 IIa	/C	.680P	.188C	515	52.0	29.5	11,000	65.9	Replaced by 18A/U
18A/U	.945*	.870 II	/C	.680P	.188C	515	52.0	29.5	11,000	65.9	Now designated as 219/U
19A/U		1.120* IIa	/C	.910P	.250C	740	52.0	29.5	14,000	65.9	Now designated as 220/U

Construction / Electrical Parameters

RG/U NO.	Armor OD/	Jkt. OD/ Type	Shield Out/In	Dielec. OD/Type	Center Cond.	Lbs/ 1000'	Nom. Imped. Ohms	Nom. Cap. mmfd/ft.	Max. Op. Volt. (Rms)	V.P %	ENGINEERING DATA
20A/U	1.195*	1.120 IIa	/C	.910P	.250C	800	52.0	29.5	14000	65.9	Now designated as 221/U
21A/U		.332*IIa	S/S	.185P	16N	80	53.0	29.0	2700	65.9	Now designated as 222/U
					Two						
22B/U		.420*IIa	TC/TC	.285P	7/.0152C	130	95.0	16.0	1000		Twin conductor bal. cable (paired)
		.650		Two Cores	Two						
23A/U		.945*IIa	C/C	.380P	7/21C	360	125.0	12.0	3000		
	.735*	.650*		Two Cores	Two						
24A/U	1.034	.945*IIa	C/C	.380P	7/21C	410	125.0	12.0	3000		Replaced by 23A/U with armor
29/U		.184*III	/TC	.116P	20C	21	53.0	28.5	1900	65.9	Replaced by 58/U
34B/U		.630*IIa	/C	.460P	7/.0249	224	75.0	21.5	6500	65.9	High powered, low atten. flex. cable
35A/U	.945*	.870 IIa	/C	.680P	9C	454	71.0		10000	65.9	Replaced by 35B/U
35B	.945*	.870 IIa	/C	.680P	.1045C	454	75.0		10000	65.9	Hi-powered low attenuation. Same as 164/U armored
54A/U		.250* III	/TC	.178P	7/.0152C	40	58.0	27.0	3000		
55A/U		.216* IIa	S/S	.116P	.035S	34	50.0	30.5	1900	65.9	Replaced by 223/U
55B/U		.206* IIIa	TC/TC	.116P	20S	34	53.5	28.5	1900	65.9	
					Two						
57A/U		.625* IIa	/TC	.427P	7/21C	225	95.0	16.0	3000	65.9	
58/U		.195* I	/TC	.116P	20C	28	53.5	28.5	1900	65.9	
58A/U		.195* I	/TC	.116P	19/.0071TC	29	52.0	28.5	1900	65.9	
58B/U		.195* IIa	/TC	.116P	20C	25	53.5	28.5	1900	65.9	
58C/U		.195* IIa	/TC	.116P	19/.0071TC	25	50.0	28.5	1900	65.9	
59/U		.242* I	/C	.146P	22CW	32	73.0	21.0	2300	65.9	Video cable
59A/U		.242* IIa	/C	.146P	.023CW	32	75.0	20.5	2300	65.9	Replaced by 59B
59B/U		.242* IIa	/C	.146P	.023CW	32	75.0	21.5	2300	65.9	
62/U		.242* I	/C	.146ASP	22CW	38	93.0	13.5	750	84.0	
62A/U		.242* IIa	/C	.146ASP	22CW	37	93.0	13.5	750	84.0	Low capacitance cable
62B/U		.242* IIa	/C	.146ASP	7/32CW	30	93.0	13.5	750	84.0	Similar to 62A/U
62C/U		.242 V	/S	.146AST	22SCW	36	93.0	13.5	750	84.0	Reassigned 210/U
63/U		.405* I	/C	.285ASP	22CW	88	125.0	10.0	1000	84.0	Replaced by 63B/U
63B/U		.405* IIa	/C	.285ASP	22CW	84	125.0	10.0	1000	84.0	Low capacitance air spaced cable
71A/U		.250* I	TC/TC	.146ASP	22CW	46	93.0	13.5	750	84.0	
71B/U		.250* IIIa	TC/TC	.146ASP	22CW	45	93.0	13.5	750	84.0	
74/U	.615*	.545 II	C/C	.370P	10C	234	52.0	29.5	5500	65.9	Replaced by 74A/U
74A/U	.615*	.545 IIa	C/C	.370P	10C	236	52.0	29.5	7000	65.9	Non designated as 224/U
		.150 I	/C	100P	7/.0056CW	.7	75.0	20.5	2500	65.9	Subminiature
79B/U	.475*	.405 IIa	/C	.285ASP	22CW	111	125.0	10.0	1000	84.0	63B/U with armor
83/U		.405* I	/C	.240P	10C	122	35.0	44.0	2000		
	Ld. Shth. Armor										
85A/U	1.565	.870 IIa	/C	.680P	9C	2910	75.0	21.5	10000	65.9	RG/84A/U with armor special
87A/U		.425 V	S/S	.280T	7/20S	174	50.0	29.5	5000	69.5	Replaced by 225/U
88A/U		.515* IV	4TC/		19/.0117TC	180	45.0	50.0			Pulse cable formerly 88B/U
94/U		.445* V	C/C	.292TT	19/.0225S	247	50.0	27.0	7000	70.0	Replacement only, new design 226/U
94A/U		.500* V	C/C	.370TT	19/.0224S	445	50.0	27.0	7000		Reassigned 226/U
100/U		.242* I	/C	.146P	10/.0147C	74	35.0	44.0	2000		
				Over Ea. Cond	Two						
108/U		.235* II	/TC	.079P	7/28TC	31	78.0	24.5	1000	68.0	Replaced by 108A/U
				Over Ea. Cond	Two						
108A/U		.235* IIa	/TC	.079P	7/28TC	30	78.0	20.0	1000	68.0	Shielded Twisted Pair
					Two						
111/U	.490*	II	TC/TC	.285P	7/.0152C	146	95.0	16.0	1000	65.9	22A/U with armor
					Two						
111A/U	.490*	.420 IIa	TC/TC	.285P	7/.0152C	145	95.0	16.0	1000	65.9	22B/U with armor
114/U		.405* I	/C	.285ASP	33CW	87	185.0	6.8	1000	88.0	Low capacitance cable
114A/U		.405* IIa	/C	.285SSP	33CW	87	185.0	7.5	1000	88.0	Special low capacitance cable
115/U		.375 V	S/S	.250TT	7/21S	139	50.0	29.5	5000	70.0	Use where exp. & contrac. are problem
115A/U		.415 V	S/S	.250TT	7/21S	159	50.0	29.5	5000	70.0	
116/U	.475	.425 V	S/S	.280T	7/20S	224	50.0	29.5	5000	69.5	Replaced by 227/U
117/U		.730 V	/C	.620T	.188C	450	50.0	29.0	7000	69.5	Replaced by 211/U
117A/U		.730 V	/C	.620T	.188C	450	50.0	29.0	7000	69.5	Replaced by 211A/U
118/U	.795	.730 V	/C	.620T	.188C	610	50.0	29.0	7000	69.5	Replaced by 228/U
118A/U	.780	.730 V	/C	.620T	.188C	600	50.0	29.5	7000	69.5	Replaced by 228A//U
119/U		.465 V	C/C	.332T	.102C	225	50.0	29.5	6000	69.5	
120/U	.525	.465 V	C/C	.332T	.102C	282	50.0	29.5	6000	69.5	119/U with armor
122/U		.160* IIa	/TC	.096P	27/36TC	20	50.0	29.5	1900	65.9	Similiar to 58A/U except smaller
126/U		.280 V	/K	.185T	7/24K	76	50.0	28.5	3000	68.5	High attenuation
					Two						
130/U		.625* I	/TC	.472P	7/.0285C	220	95.0	17.0	8000		Same as 57A/U except more flexible

Construction / Electrical Parameters

RG/U NO.	Armor OD/	Jkt. OD/ Type	Shield Out/In	Dielec. OD/Type	Center Cond.	Lbs/ 1000'	Nom. Imped. Ohms	Nom. Cap. mmfd/ft.	Max. Op. Volt. (Rms)	V.P %	ENGINEERING DATA
					Two						
131/U	.710*	.625* I	/TC	.472P	7/.0285C	295	95.0	17.0	8000		130/U with armour
133A/U		.405* IIa	/C	.280P	21C	89	95.0	16.2	4000		
140/U		.233 V	/S	.146T	.025SCW	45	75.0	21.0	2300	69.5	High temperature similar to 59A/U
141/U		.190 V	/S	.116T	.0359SCW	35	50.0	28.5	1900	69.5	
141A/U		.190 V	/S	.116T	.039CW	32	50.0	28.5	1900	69.5	High temperature similar to 58C/U
142/U		.206 V	S/S	.116T	.0359SCW	45	50.0	28.5	1900	69.5	
142A/U		.206 V	S/S	.116T	.039SCW	45	50.0	28.5	1900	69.5	High temperature similar to 55A/U
142B/U		.195 IX	S/S	.116T	.039SCW	42	50.0	28.5	1900	69.2	
143/U		.325 V	S/S	.185T	.057SCW	102	50.0	28.5	3000	69.5	
143A/U		.325 V	S/S	.185T	.059SCW	102	50.0	28.5	3000	69.5	High temperature similar to 58/U
144/U		.410 V	/S	.285T	7/25SCW	120	75.0	20.5	5000	69.5	High temperature similar to 11/U
146/U		.375 V	/C	.285AST	.007CW	108	190.0	6.0	1000		High temperature, low capacitance
149/U		.405 I	/TC	.285CCP	7/26TC	92	75.0	20.5	5000	65.9	11/U low noise
150/U	.475	.405 I	/TC	.285CCP	7/26TC	116	75.0	20.5	5000	65.9	149/U with armor
161/U		.082 External Nylon Blk.	/S	.057T	7/.004SCB	6.1	70.0	20.0	1000	69.5	
164/U		.870 IIa	/C	.680P	.1045C	389	75.0	21.0	10,000	65.9	35B/U less armor
165/U		.410 V	/S	.285T	7/.032S	140	50.0	29.5	5000	69.5	
166/U	.460	.410 V	/S	.285T	7/.032S	172	50.0	29.5	5000	69.5	165/U with armor
174/U		.100 I	/TC	.060P	7/34CW	7.5	50.0	30.0	1500	65.9	
174A/U		.100 IIa	/TC	.060P	7/0063	0.8	50.0	30.8	1500		Miniature data trans.
177/U		.895 IIa	S/S	.680P	.195C	460	50.0	30.5	1100	65.9	
178B/U		.075 IX	/S	.034T	7/.004SCW	6.2	50.0	28.5	1000	69.5	
179B/U		.105 IX	/S	.063T	7/.004SCW	9.6	75.0	19.5	1200	69.5	High temperature miniaturized cable
180B/U		.145 IX	/S	.102T	7/.004SCW	19	95.0	15.0	1500	69.5	
					Two						
181/U		.640 IIa	/C	.210P	7/26C	200	12.5	12.0	3500		Unbalanced cable
187A/U		.110 VII	/S	.060T	7/.004SCW	11	75.0	19.5	1200	69.5	High temperature miniaturized cable
188A/U		.110 VII	/S	.060T	7/.0067SCW	11	50.0	29.0	1200	69.5	High temperature miniaturized cable
195A/U		.155 VII	/S	.102T	7/.004SCW	21	95.0	15.0	1500	69.5	For FEP jacket type, refer to 180B/U
196A/U		.080 VII	/S	.034T	7/.004SCW	5.9	50.0	28.5	1000	69.5	For FEP jacket type, refer to 178B/U
209/U		.745 VI	S/S	.500AST	19/.0378S	432	50.0	26.5	3200	84.0	High power, high flex coaxial
210/U		.242 V	/S	.146AST	22SCCW	40	93.0	14.5	750	84.0	Replaces 62C/U
211/U		.730 V	/C	.620T	.190C	450	50.0	29.0	7000	69.5	Formerly 117/U
211A/U		.730 V	/C	.620T	.190C	450	50.0	29.5	7000	69.5	Formerly 117A/U
212/U		.332 IIa	S/S	.185P	.556S	83	50.0	29.5	3000	65.9	Formerly 5B/U
213/U		.405 IIa	/C	.285P	7/.0296C	120	50.0	29.5	3000	65.9	Formerly 8A/U
214/U		.425 IIa	S/S	.285P	7/.0296S	127	50.0	29.5	3000	65.9	Formerly 9B/U
215/U	.475	.405 IIa	/C	.285P	7/.0296C	149	50.0	29.5	3000	65.9	Formerly 10A/U
217/U		.545 IIa	C/C	.370P	.106C	220	50.0	29.5	7000	65.9	Formerly 14A/U
218/U		.870 IIa	/C	.680P	.195C	467	50.0	29.5	11,000	65.9	Formerly 17A/U
219/U	.945	.870 IIa	/C	.680P	195C	515	50.0	29.5	11,000	65.9	Formerly 18A/U
220/U		1.120 IIa	/C	.910P	.260C	740	50.0	29.5	14,000	65.9	Formerly 19A/U
221/U	1.195	1.120 IIa	/C	.910P	.260C	800	50.0	29.5	14,000	65.9	Formerly 20A/U
222/U		.332 IIa	S/S	.185P	.0556N	84	50.0	29.0	2700	65.9	Formerly 21A/U
223/U		.216 IIa	S/S	.116P	.035S	36	50.0	29.5	1900	65.9	Formerly 55A/U
224/U	.615	.545 IIa	C/C	.370P	.106C	236	50.0	29.5	7000	65.9	Formerly 74A/
225/U		.430 V	S/S	.285T	7/.0312S	174	50.0	29.5	5000	69.5	Formerly 87A/U
226/U		.500 V	C/C	.370TT	19/.0254S	247	50.0	29.5	7000	70.0	Formerly 94A/U
227/U	.490	.430 V	S/S	.285T	7/.0312S	224	50.0	29.5	5000	69.5	Formerly 116/U
228/U	.795	.730 V	/C	.620T	.190C	625	50.0	29.5	7000	69.5	Formerly 118/U
228A/U	.784	.730 V	/C	.620T	.190C	625	50.0	29.5	7000	69.5	Formerly 118/U
235/U		.470 VI	S/S	.255TT	7/.028S	180	50.0	29.5	5000	70.0	115A/U with Type VI jacket
		.750	Over Ea.		Four						
264/U		.245 I	C/C Over Ea.	.176P	19/27C Four	340	40.0	38.0		65.9	4 individual coaxials cabled together
264A/U		.750 IIa	C/C	.176p	19/27C	340	40.0	38.0		65.9	4 individual coaxials cabled together
280/U		.480 IIa	S/S	.327AST	.114C	179	50.0	27.5	4000		
281/U		.750 VI	S/S	.500AST	19/.0378S	400	50.0	29.0	4000		
298/U	.650 Poly Foamed			.115P	7/24CW	108					MIL-C-22667A
301/U		.245 IX	/K	.185T	7/.0203K	65	50.0	29.0	3000		Same as 126/U except for FEP jacket
302/U		.206 IX	/S	.146T	.025SCW	45	75.0	21.0	2300	69.5	Same as 140/U except for FEP jacket
303/U		.170 IX	/S	.116T	.039SCW	35	50.0	28.5	1900	69.5	Same as 141A/U except for FEP jacket
304/U		.280 IX	S/S	.185T	.059SCW	102	50.0	28.5	3000	69.5	Same as 143
307A/U	.270 Poly Foamed		S/S		19/.0058S	51		75.0			Special triaxial
316/U		.102 IX	/S	.060T	7/.0067SCW	11	50.0	29.0	1200	69.5	Same as 188/U except for FEP jacket
					Two Cores						
317/U		.710 IV	/TC	.446T	7/.0290		95.0	15.4	10,000		Water blocked

Construction / Electrical Parameters

RG/U NO.	Armor OD/	Jkt. OD/ Type	Shield Out/In	Dielec. OD/Type	Center Cond.	Lbs/ 1000'	Nom. Imped. Ohms	Nom. Cap. mmfd/ft.	Max. Op. Volt. (Rms)	V.P %	ENGINEERING DATA
318/U		1.125 IIIa	/1.005CT	.795SSP	OD .358 ID .287	53	50.0	22.0	44KW		
319/U		2.000 IIIa	/1.83CT	1.57SSP	OD .688 ID .588	104	50.0	22.0	145KW		
321/U		2.850 None	/2.85CT	SSP	OD 1.14	121	50.0	21.7	320KW		
322/U		3.040 PE	/2.85CT	SSP	OD 1.14	178	50.0	21.7	320KW		
323/U		1.060 PE	/.980CT	Foam	.312CT	42	50.0	25.6	1480		
324/U		.980 None	/.980CT	Foam	.312CT	32	50.0	25.6	1480		
325/U		.350 PUR	S/S	.26P	19/.0200SAL	10	50.0	26.3	750		Low loss
326/U		.697 PUR	S/S	.55P	19/.040SAL	24	50.0	26.3	1700		Low loss
327/U		1.010 PUR	S/S	.84	19/.064SAL	55	50.0	26.3	2500		Low loss
328/U		1.460 IV	ITCIGS/ITC	1.065R	.485TCB	146	25.0	85.0	20,000		
329/U		.700 IV	ITCIGS/ITC	.380R	19/.0117	35.3	50.0	50.0	15,000		
330/U		.242	/IS	Foam	S		50.0	25.0			
331/U		.600 IIIa	/.500Al.Tu	.450Foam	.162C	18.7	50.0	25.0	2500		RG231 jacketed
332/U		.875 None	/.875Al.Tu	.801F	.280C	46.6	50.0	25.0	4500		Per MIL-C-23806
333/U		1.015 IIIa	/.875Al.Tu	.801F	288C	54.8	50.0	25.0	4500		RG332 jacketed
334/U		.500 None	/.500Al.Tu	.450F	.098C	10.9	75.0	17.0	2500		Per MIL-C-23806
335/U		.625 IIIa	/.500Al.Tu	.450F	.098C	19.3	75.0	17.0	2500		RG334 jacketed
336/U		.875 Non	/.875Al.Tu	.801F	.173C	31.5	750	17.0	4000		Per MIL-C-23806
360/U		.825 IIIa	/.750Al.Tu	.676F	.243C	39.7	50.0	25.0	4000		Per MIL-C-23806
366/U		.620 IIIa	/.540CT	Foam	160C		50.0	26.6	4000		
367/U		5.200 IIIa	/.500Corr. CT	Corr. CT		459	50.0	21.7	830KW		
369/U		.470 IIIa	/.390Al.Tu	.318P	.117C	14.0	50.0	24.0	700		
370/U		.390 None	/.390Al.Tu	.318P	.117C	10	50.0	24.0	700		
374/U		.650 Foam		.160P	.0285C	9.7					Buoyant antenna
376/U		1.060 IIIa	/Corr.Al.Tu	Foam	.312CT	39	50.0	26.0	6000		
377/U		.530 None	/.530Al.Tu	T	.165S Tube	17	50.0	24.0	1000		
378/U		2.000 IIIa	/1.830Al.Tu	SSP	.713CT	62	50.0	22.1	145KW		
382/U		1.625	/Al.Tu				50.0				
383/U		.650 Foam	/Flat	P	2 Cond..0403 P		100.0				2000 lb tens. Twisted par.
384/U		.650 Foam	C.Braid.500	.425SS	.0508C		50.0	30.8			Buoyant antenna 600 psig
385/U		.660 Option	/Corr Al..144	PTFE	.153SC	17.8	50.0	25.0	1500		Low loss
388/U		.545 IIIa	/S	P	SC		50.0	30.8			Watertight see RG14A
389/U		.875 IIIa	S/S	.635PE	.250C AL	36.6	50.0	22.8	2000		Replace RG189
391/U		.405 IIa	/TC	.285PE	7/.0159TC	9.2	72.0		5000		Low noise
392/U	.475	.405 IIa	/TC	.285PE	7/.0159TC	11.4	72.0		5000		RG391 Armored
393/U		.390 IX	S/S	.285T	7/.0312	16.5	50.0	29.4	5000		Moisture proof RG225
397/U		.360 IX	S/S	.270AST	7/.032S	12.5	50.0	28.0	2000		Low loss RG393
400/U		.195 IX	S/S	.116T	19/.007SPC	5	50.0	29.3	1900		
401/U	.	250 None	/.250CT	.215T	.0645SPC	8.1	50.0	29.3	3000		Semiflex RG304
402/U		.141 None	/.141Tube	.119T	.036SCCS	3.2	50.0	29.3	2500		Semiflex RG142B
403/U		.116 IX	S/S	.034T	7/.004S	.7	50.0	29.3	2500		Triaxial RG178B
404/U		.075 IX	/S	.034T	7/.004SCCS	.55	50.0	31.5	2000		Low noise RG178

*Nominal Overall Diameters

KEY TO ABBREVIATIONS

C-Bare Copper
S-Silvered Copper
P-Polyethylene
CW-Copperweld
CT-Bare Coppertube
SAL-Silvered Aluminum
N-Nichrome
TC-Tinned Copper
ASP-Air Spaced Polyethylene
SSP-Semi-Solid Polyethylene
CCP-Conductive Coated Polyethylene
PE-Polyethylene
T-Teflon
TT-Teflon Tape
AST-Air Spaced Tetrafluorethylene
PUR-Polyurethane
K-KARMA
SCW-Silvered Copperweld
SCB-Silver Plated Cadmium Bronze
CORR-Corrugated

THWN - THHN (18 AWG & 16 AWG are TFFN)
Gas and Oil Resistant 75”C MTW - 105” AWM - 600V
Conductor: Bare soft copper stranded or solid. Insulation: Polyvinylchloride compounds Jacketed: Nylon Armor as follows: .004" Thick Sizes 18-10; .005" Thick Sizes 8-6; .007" Thick Sizes 1-0000; .006" Thick Sizes 4-2; .008 Thick Sizes 250-500 MCM. The clear nylon is applied over all surface printing. Specifically designed for use in wet locations and is resistant to oils, gasoline, water, acids, alkalies, ozone, sunlight and abrasion.

Part Number	AWG Size	Stranding	PVC Insulation Thickness	Nominal O.D.
WMB-1401	14	(1)	.015"	.110"
WMB-1201	12	(1)	.015"	.127"
WMB-1001	10	(1)	.015"	.158"
WMB-1816	18*TFFN	16x30	.015"	.094"
WMB-1626	16*TFFN	26x30	.015"	.107"
WMB-1419	14	19x27	.015"	.120"
WMB-1219	12	19x25	.015"	.139"
WMB-1019	10	19x.0234	.020"	.173"
WMB-0819	8	19x.0295	.030"	.210"
WMB-0619	6	19x.0612	.030"	.250"
WMB-0419	4	19x.0469	.040"	.320"
WMB-0219	2	19x.0591	.040"	.380"
WMB-0119	1	19x.0664	.050"	.440"
WMB-0745	0	19x.0745	.050"	.480"
WMB-0837	00	19x.0837	.050"	.527"
WMB-0940	000	19x.0940	.050"	.578"
WMB-1055	0000	19x.1055	.050"	.636"
WMB-0822	250mcm	37x.0822	.060"	.705"
WMB-0900	300mcm	37x.0900	.060"	.760"
WMB-0973	350mcm	37x.0973	.060"	.810"
WMB-1040	400mcm	37x.1040	.060"	.860"
WMB-1162	500mcm	37x.1162	.060"	.945"

Neoprene Welding Cable - Conductor: Stranded Bare Copper. Insulation: Tape wrap. Jacketed: Black NeopreneApplications: All have extra fine stranding are extremely flexible and have high resistance to abrasion, impact, flexing and twisting.

Part Number	AWG Size	Stranding	Nominal O.D.	Current Carrying Cap. (Amps)
CWA-06	6	259x30	.376	75
CWA-04	4	413x30	.420	100
CWA-02	2	665x30	.495	200
CWA-01	1	840x30	.550	250
CWA-10	1/0	1050x30	.615	300
CWA-20	2/0	1323x30	.690	375
CWA-30	3/0	1680x30	.740	450
CWA-40	4/0	2121x30	.835	500

Foil Shielded Multi-Conductor Cable - NEC Type CL2 and CM, UL 2464 CSA T-2
Conductor: Tinned Copper Insulation: 24AWG semi-rigid PVC insulation, UL Style 1061, CSA Type SR-PVC. Jacketed: PVC Shield: Flexfoil aluminum foil/Polyester with tinned copper drain wire. Temperature Rating: -20”C to +80”C. Voltage Rating: 300V.

Part Number	No. of Cond.	Cond. Size	Cond. Stranding	Nom Insulation Thickness (in/mm)	Nom. Jacket Thickness (in/mm)	Nom. O.D. (in/mm)
CVA-240702	2	24	7x32	.010 - .25	.032 - .81	.165 - 4.19
CVA-240703	3	24	7x32	.010 - .25	.032 - .81	.170 - 4.32
CVA-240704	4	24	7x32	.010 - .25	.032 - .81	.185 - 4.70
CVA-240705	5	24	7x32	.010 - .25	.032 - .81	.195 - 4.95
CVA-240706	6	24	7x32	.010 - .25	.032 - .81	.210 - 5.33
CVA-240707	7	24	7x32	.010 - .25	.032 - .81	.215 - 5.46
CVA-240708	8	24	7x32	.010 - .25	.032 - .81	.225 - 5.72
CVA-240709	9	24	7x32	.010 - .25	.032 - .81	.240 - 6.10
CVA-240710	10	24	7x32	.010 - .25	.032 - .81	.250 - 6.35
CVA-240715	15	24	7x32	.010 - .25	.032 - .81	.280 - 7.11
CVA-240720	20	24	7x32	.010 - .25	.032 - .81	.305 - 7.75
CVA-240725	25	24	7x32	.010 - .25	.032 - .81	.345 - 8.76
CVA-240730	30	24	7x32	.010 - .25	.032 - .81	.365 - 9.27
CVA-240740	40	24	7x32	.010 - .25	.032 - .81	.405 - 10.29
CVA-240750	50	24	7x32	.010 - .25	.032 - .81	.445 - 11.30
CVA-240760	60	24	7x32	.010 - .25	.032 - .81	.475 - 12.07

Color Code Chart 1 (02-10) See Color Code Charts page 53.
Color Code Chart 2 (15-60) See Color Code Charts page 53.

SOW Neoprene Service Cord - UL & CSA LISTED. Black 600V - Heavy Duty, Construction Copper: Bare soft annealed, Stranding per ASTM B-174. Insulation of inner conductors: Premium grade color coded 90°C EPDM, Temp. Range: -40°C to 90°C, Jacket: Black neoprene, Jacket marking: All sizes surface printed, showing gauge, number of conductors and type.

Part Number	AWG	No. of	Insulation	Stranding	Nominal	Current Amps	Weight
CSL-1802	18	2	.030	16/30	0.345	10	70
CSL-1803	18	3	.030	16/30	0.365	10	85
CSL-1804	18	4	.030	16/30	0.390	7	100
CSL-1602	16	2	.030	26/30	0.370	13	80
CSL-1603	16	3	.030	26/30	0.390	13	105
CSL-1604	16	4	.030	26/30	0.420	10	120
CSL-1402	14	2	.045	41/30	0.500	18	135
CSL-1403	14	3	.045	41/30	0.530	18	170
CSL-1404	14	4	.045	41/30	0.575	15	205
CSL-1202	12	2	.045	65/30	0.570	25	195
CSL-1203	12	3	.045	65/30	0.600	25	220
CSL-1204	12	4	.045	65/30	0.650	20	270
CSL-1002	10	2	.045	104/30	0.620	30	215
CSL-1003	10	3	.045	104/30	0.660	30	290
CSL-1004	10	4	.045	104/30	0.715	25	350
CSL-0803	8	3	.060	133/29	0.855	40	450
CSL-0804	8	4	.060	133/29	0.970	35	650
CSL-0805	8	5	.060	133/29	1.075	28	700
CSL-0603	6	3	.060	133/27	0.980	55	700
CSL-0604	6	4	.060	133/27	1.090	45	890
CSL-0605	6	5	.060	133/27	1.225	36	1030
CSL-0403	4	3	.060	133/25	1.140	70	950
CSL-0404	4	4	.060	133/25	1.260	60	1150
CSL-0405	4	5	.060	133/25	1.365	48	1400
CSL-0203	2	3	.060	133/23	1.330	80	1330
CSL-0204	2	4	.060	133/23	1.460	80	1650
CSL-0205	2	5	.060	133/23	1.610	65	2000

SJOW Neoprene Service Cord - UL & CSA LISTED. Black 300V - Heavy Duty, Construction Copper: Bare soft annealed, Stranding per ASTM B-174. Insulation of inner conductors: Premium grade color coded 90°C EPDM, Temp. Range: -40°C to 90°C, Jacket: Black neoprene, Jacket marking: All sizes surface printed, showing gauge, number of conductors and type.

Part Number	AWG	No. of	Insulation	Stranding	Nominal	Current Amps	Weight
CSM-1802	18	2	.030	16/30	0.285	10	50
CSM-1803	18	3	.030	16/30	0.305	10	65
CSM-1804	18	4	.030	16/30	0.330	7	75
CSM-1602	16	2	.030	26/30	0.310	13	60
CSM-1603	16	3	.030	26/30	0.330	13	75
CSM-1604	16	4	.030	26/30	0.365	10	95
CSM-1402	14	2	.030	41/30	0.340	18	80
CSM-1403	14	3	.030	41/30	0.365	18	105
CSM-1404	14	4	.030	41/30	0.395	15	130
CSM-1202	12	2	.045	65/30	0.410	25	115
CSM-1203	12	3	.045	65/30	0.430	25	150
CSM-1204	12	4	.045	65/30	0.475	20	180
CSM-1002	10	2	.045	104/30	0.550	30	175
CSM-1003	10	3	.045	104/30	0.570	30	230
CSM-1004	10	4	.045	104/30	0.655	25	305

SJ Rubber Service Cord - UL & CSA Listed
300 Volt, Construction: Copper, Bare soft annealed. Stranding for ASTM B-174. Insulation: Premium grade color coded EPDM Rubber, Temperature Range: -40°C to +60°C. Jacket: Black Rubber, Jacket Marking: All sizes surface printed showing gauge, number of conductors and type.

Part Number	AWG	No. of Conductors	Insulation Thickness	Stranding	Nominal O.D.	Current Amps	Weight lbs/M'
CSQ-1802	18	2	0.030	16/30	.295	10	50
CSQ-1803	18	3	0.030	16/30	.310	10	65
CSQ-1804	18	4	0.030	16/30	.320	7	75
CSQ-1602	16	2	0.030	26/30	.315	13	60
CSQ-1603	16	3	0.030	26/30	.330	13	75
CSQ-1604	16	4	0.030	26/30	.365	10	95
CSQ-1402	14	2	0.030	41/30	.340	18	80
CSQ-1403	14	3	0.030	41/30	.365	18	105
CSQ-1404	14	4	0.030	41/30	.395	15	130
CSQ-1202	12	2	0.030	65/30	.410	24	115
CSQ-1203	12	3	0.030	65/30	.430	24	150
CSQ-1204	12	4	0.030	65/30	.470	20	180
CSQ-1002	10	2	0.045	104/30	.550	30	175
CSQ-1003	10	3	0.045	104/30	.590	30	230
CSQ-1004	10	4	0.045	104/30	.655	25	305

SJEOW - Plastic Service Cord.
UL Listed SJEOW and CSA Listed SJTW - 300 Volt, Construction: Copper: Bare, fully annealed, Stranding per ASTM B-174, Insulation: Color Coded thermoplastic elastomer, Temperature Range: -50°C to +105°C. Jacket: Black Thermoplastic Elastomer. Jacket Marking: All sizes surface printed showing gauge, number of conductors and type.

Part Number	AWG	No. of Conductors	Insulation Thickness	Stranding	Nominal O.D.	Current Amps	Weight lbs/M'
CSR-1802	18	2	0.030	16/30	.290	10	43
CSR-1803	18	3	0.030	16/30	.310	10	59
CSR-1804	18	4	0.030	16/30	.330	7	73
CSR-1602	16	2	0.030	26/30	.305	13	61
CSR-1603	16	3	0.030	26/30	.330	13	78
CSR-1604	16	4	0.030	26/30	.385	10	89
CSR-1402	14	2	0.030	41/30	.345	18	75
CSR-1403	14	3	0.030	41/30	.365	18	101
CSR-1404	14	4	0.030	41/30	.415	15	115
CSR-1203	12	3	0.030	65/30	.430	30	159
CSR-1204	12	4	0.030	65/30	.480	25	200

SV Black & Gray 300V
Conductor: Bare Soft Annealed Copper. Stranding per ASTM-B-174 and ASTM-B-172. Insulation of Inner Conductors: Synthetic Rubber (SBR) per IPCEA Pub. No. S-19-81 (5th Edition) Part 3.7.1 (SBR): NEMA Pub. No. WC-3-1969; UL subject 62, Class 3. Jacketed: Black Synthetic Rubber. Jacket Marking: All sizes surface printed, showing AWG, number of conductors and type.

Part Number	AWG Size	Insul Thickness	Stranding	Nominal O.D.	Current Amps	Weight lbs/M'
CSS-1802	18/2	1/64	41x34	.245	10	39
CSS-1803	18/3*	1/64	41x34	.255	10	46

* Two conductor cord with 3rd conductor for grounding only.

SVT Black - Ribbed Jacket - 300V
Conductor: Bare Soft Annealed Copper. Stranding per ASTM-B-174 and ASTM-B-172, Class K. Insulation: Polyvinyl chloride, resistant to oils, water, acids, alkalies and ozone. 60”C - UL Class 11. Black, gray and white SVT. Jacketed: 60”C Black, gray or white (SVT), UL Class 11, non marking polyvinyl chloride, resistant to oil, water, acid, alkali, ozone and abrasion, Jacket meets specifications per ASTM-D-1047.

Part Number	AWG Size	Insul Thickness	Stranding	Nominal O.D.	Current Amps	Weight lbs/M’
CSB-1802	18/2	1/64	41x34	.245	10	37
CSB-1803	18/3*	1/64	41x34	.255	10	39

*2 conductor with 3rd conductor for grounding only

SVT Black - Smooth Jacket - 300V
Conductor: Bare Soft Annealed Copper. Stranding per ASTM-B-174 and ASTM-B-172. Insulation: Polyvinyl chloride, resistant to oils, water, acids, alkalies and ozone. 60”C - UL Class 11. Black, gray and white SVT. Jacketed: 60”C Black, gray or white (SVT), UL Class 11, non marking polyvinyl chloride, resistant to oil, water, acid, alkali, ozone and abrasion.

Part Number	AWG Size	Insul Thickness	Stranding	Nominal O.D.	Current Amps	Weight lbs/M’
CSC-1802	18/2	1/64	41x34	.245	10	37
CSC-1803	18/3*	1/64	41x34	.255	10	39

*2 conductor with 3rd conductor for grounding only

SJT Black - Smooth Jacket - 300V
Conductor: Bare Soft Annealed Copper. Class K stranding per ASTM-B-174 and ASTM-B-172. Insulation: Polyvinyl chloride, resistant to oils, water, acids, alkalies and ozone. 60”C - UL Class 11. Black and gray. Jacketed: 60”C Black and gray, UL Class 11, non marking polyvinyl chloride, resistant to oil, water, acid, alkali, ozone and abrasion.

Part Number	AWG Size	Insul Thickness	Stranding	Nominal O.D.	Current Amps	Weight lbs/M’
CSD-1802	18/2	2/64	16x30	.300	10	48
CSD-1803	18/3	2/64	16x30	.325	10	68
CSD-1602	16/2	2/64	26x30	.325	13	64
CSD-1603	16/3	2/64	26x30	.350	13	83

Speaker & Lamp Cord - UL & CSA Listed
SPT Plastic - 2 Conductor - 300V. Conductor: Stranded Copper. Stranding per ASTM-B-174, Class K and Class M. Insulation: Underwriters Class II polyvinyl chloride. Resistant to oils, water, chemicals, acids, alkalies, ozone and abrasion. Temperature Rating: 60”C to -20”C. Construction: Integral parallel rip type for easy slitting. 3-wire with green ground, center conductor separately insulated.

Part Number	AWG Size	Type	Stranding	Nominal O.D.	Current Amps	Weight lbs/M’
CSE-1802-1	18/2	SPT-1	41x34	.105 X .205	10	21
CSE-1802-2	18/2	SPT-2	41x34	.142 X .265	10	29
CSE-1602-2	16/2	SPT-2	65x34	.155 X .296	13	38

Speaker & Lamp Cord - UL & CSA Listed. SPT Plastic - 3 Conductor - 300V. Conductor: Stranded Copper. Stranding per ASTM-B-174, Class K and Class M. Insulation: Underwriters Class II polyvinyl chloride. Resistant to oils, water, chemicals, acids, alkalies, ozone and abrasion. Temperature Rating: 105”C to -10”C. Construction: Integral parallel rip type for easy slitting. 3-wire with green ground, center conductor separately insulated.

Part Number	AWG Size	Type	Stranding	Nominal O.D.	Current Amps	Weight lbs/M’
CSE-1803-1	18/3	SPT-1	41x34	.110 X .306	7	28
CSE-1603-2	16/3	SPT-2	65x34	.158 X .385	13	44
CSE-1403-3	14/3	SPT-3	41x30	.232 X .508	18	81
CSE-1203-3	12/3	SPT-3	65x30	.285 X .600	25	128

Speaker & Lamp Cord - UL & CSA Listed
SP Rubber - 2 Conductor - 300V. Conductor: Stranded Copper. Stranding per ASTM-B-174, Class K and Class M. Insulation: Underwriters Class 4 synthetic buna rubber (SBR). Temperature Rating: 60”C (140”F) to -37”C (-35”F). Construction: Integral parallel Rip-Type for easy slitting.

Part Number	AWG Size	Type	Stranding	Nominal O.D.	Current Amps	Weight lbs/M’
CSG-1802-1	18/2	SP-1	41x34	.113 X .220	10	22
CSG-1802-2	18/2	SP-2	41x34	.148 X .285	10	33
CSG-1602-1	16/2	SP-2	65x34	.161 X .310	13	42

STO Gray - Heavy Duty - 600V. Conductor: Bare soft drawn annealed Copper. Stranding per ASTM-B-174, Class K . Insulation: Polyvinyl Chloride, resistant to oils, water, acids, alkalies, ozone and abrasion, per UL subject 62, Class 11. Jacket: Gray or yellow non-marking polyvinyl chloride resistant to oils, water, acids, alkalies, ozone and abrasion. Meets specifications per ASTM-D-1047 and UL Subject 62 Class II.

Part Number	AWG Size	Insulation Thickness	Stranding	Nominal O.D.	Current Amps	Weight lbs/M'
CSH-1802	18/2	2/64	16x30	.375	10	76
CSH-1803	18/3	2/64	16x30	.390	10	84
CSH-1804	18/4	2/64	16x30	.420	7	108
CSH-1602	16/2	2/64	26x30	.400	13	88
CSH-1603	16/3	2/64	26x30	.420	13	104
CSH-1604	16/4	2/64	26x30	.450	10	128
CSH-1402	14/2	3/64	41x30	.527	18	142
CSH-1403	14/3	3/64	41x30	.557	18	163
CSH-1404	14/4	3/64	41x30	.602	15	216
CSH-1202	12/2	3/64	65x30	.597	25	200
CSH-1203	12/3	3/64	65x30	.632	25	232
CSH-1204	12/4	3/64	65x30	.662	20	276
CSH-1002	10/2	3/64	105x30	.637	30	236
CSH-1003	10/3	3/64	105x30	.687	30	284
CSH-1004	10/4	3/64	105x30	.742	25	344

SJTO Gray - 300V - Conductor: Bare soft drawn annealed Copper. Stranding per ASTM-B-174, Class K . Insulation: Polyvinyl Chloride, resistant to oils, water, acids, alkalies, ozone, and abrasion per UL subject 62, Class 11. Jacket: Gray or yellow non-marking polyvinyl chloride resistant to oils, water, acids, alkalies, ozone and abrasion. Meets specifications per ASTM-D-1047 and UL Subject 62 Class II.

Part Number	AWG Size	Insulation Thickness	Stranding	Nominal O.D.	Current Amps	Weight lbs/M'
CSI-1802	18/2	2/64	16x30	.300	10	48
CSI-1803	18/3	2/64	16x30	.325	10	68
CSI-1804	18/4	2/64	16x30	.355	7	78
CSI-1602	16/2	2/64	26x30	.325	13	64
CSI-1603	16/3	2/64	26x30	.350	13	83
CSI-1604	16/4	2/64	26x30	.385	10	94
CSI-1402	14/2	2/64	41x30	.355	18	80
CSI-1403	14/3	2/64	41x30	.385	18	106
CSI-1404	14/4	2/64	41x30	.415	15	120

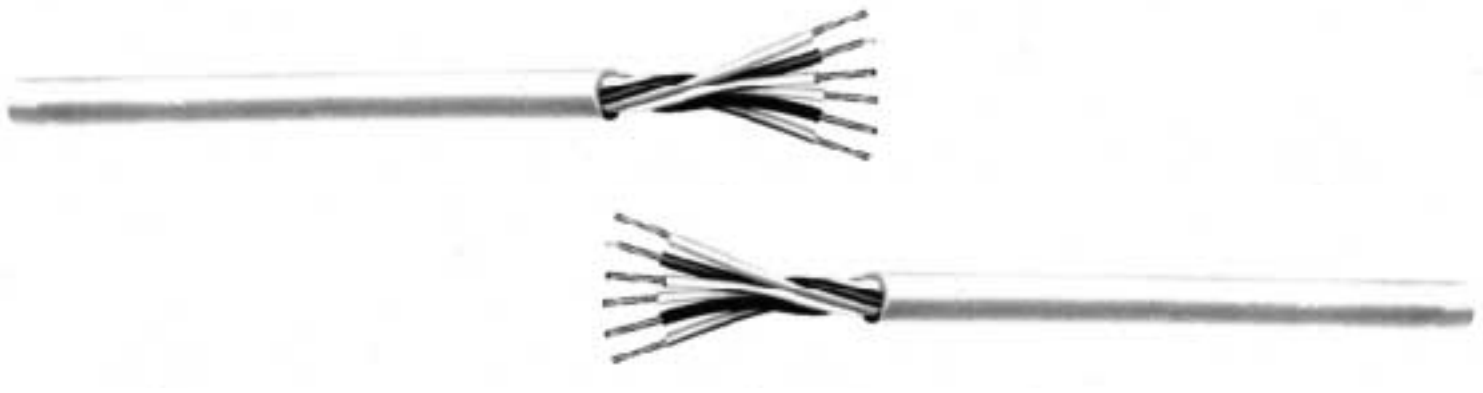
STO Yellow - Heavy Duty - 600V - Conductor: Bare soft drawn annealed Copper. Stranding per ASTM-B-174, Class K . Insulation: Polyvinyl Chloride, resistant to oils, water, acids, alkalies, ozone and abrasion per UL subject 62, Class 11. Jacket: Gray or yellow non-marking polyvinyl chloride resistant to oils, water, acids, alkalies, ozone and abrasion. Meets specifications per ASTM-D-1047 and UL Subject 62 Class II.

Part Number	AWG Size	Insulation Thickness	Stranding	Nominal O.D.	Current Amps	Weight lbs/M'
CSJ-1802	18/2	2/64	16x30	.375	10	76
CSJ-1803	18/3	2/64	16x30	.390	10	84
CSJ-1804	18/4	2/64	16x30	.420	7	108
CSJ-1602	16/2	2/64	26x30	.400	13	88
CSJ-1603	16/3	2/64	26x30	.420	13	104
CSJ-1604	16/4	2/64	26x30	.450	10	128
CSJ-1402	14/2	3/64	41x30	.527	18	142
CSJ-1403	14/3	3/64	41x30	.557	18	163
CSJ-1404	14/4	3/64	41x30	.602	15	216
CSJ-1202	12/2	3/64	65x30	.597	25	200
CSJ-1203	12/3	3/64	65x30	.632	25	232
CSJ-1204	12/4	3/64	65x30	.662	20	276
CSJ-1002	10/2	3/64	105x30	.637	30	236
CSJ-1003	10/3	3/64	105x30	.687	30	284
CSJ-1004	10/4	3/64	105x30	.742	25	344

SJTO Yellow - 300V
Conductor: Bare soft drawn annealed Copper. Stranding per ASTM-B-174, Class K .
Insulation: Polyvinyl Chloride, resistant to oils, water, acids, alkalies, ozone, and abrasion per UL subject 62, Class 11. Jacket: Gray or yellow non-marking polyvinyl chloride resistant to oils, water, acids, alkalies, ozone and abrasion. Meets specifications per ASTM-D-1047 and UL Subject 62 Class II.

Part Number	AWG Size	Insulation Thickness	Stranding	Nominal O.D.	Current Amps	Weight lbs/M'
CSK-1802	18/2	2/64	16x30	.300	10	48
CSK-1803	18/3	2/64	16x30	.325	10	68
CSK-1804	18/4	2/64	16x30	.355	7	78
CSK-1602	16/2	2/64	26x30	.325	13	64
CSK-1603	16/3	2/64	26x30	.350	13	83
CSK-1604	16/4	2/64	26x30	.385	10	94
CSK-1402	14/2	2/64	41x30	.355	18	80
CSK-1403	14/3	2/64	41x30	.385	18	106
CSK-1404	14/4	2/64	41x30	.415	15	120

CONTROL AND AUDIO CABLE / MULTI-CONDUCTOR UNSHIELDED



NEC Type CL2 & CM
Conductors: Stranded Tinned Copper. Insulation: Color Coded Polyvinyl Chloride. Construction: Conductors as cabled Jacket: Overall gray Polyvinyl Chloride. Approvals: Recognized under components program of Underwriters Laboratories Inc. 22 AWG UL 2576-80"C 150V. Inner Conductors: UL 1624-80°C 150V. #20 awg. Cable-UL Style 2464-80°C 300V. #18 awg. Cable-UL Style 2598-60°C 300V. #16 awg. Cable-UL Style 2576-80°C 150V. #14 awg. Cable-UL Style2509-80°C 300V. #12 awg. Cable-UL Style 2509-80°C 300V. Passes VW-1 Vertical Flame Test. OSHA Acceptable.

Part Number	No. Cond.	AWG Size	No. Strands	Diam. Conductor inches	Insulation Thick. inches	Jacket Thick. inches	Nom. O.D. inches
CVU-220702	2	22	7/30	.030	.010	.032	.160
CVU-220703	3	22	7/30	.030	.010	.032	.164
CVU-220704	4	22	7/30	.030	.010	.032	.182
CVU-220705	5	22	7/30	.030	.010	.032	.194
CVU-220706	6	22	7/30	.030	.010	.032	.205
CVU-220707	7	22	7/30	.030	.010	.032	.214
CVU-220708	8	22	7/30	.030	.010	.032	.229
CVU-220709	9	22	7/30	.030	.010	.032	.244
CVU-220710	10	22	7/30	.030	.010	.032	.264
CVU-220712	12	22	7/30	.030	.010	.032	.264
CVU-220715	15	22	7/30	.030	.010	.040	.330
CVU-220718	18	22	7/30	.030	.010	.040	.340
CVU-220720	20	22	7/30	.030	.010	.040	.345
CVU-220724	24	22	7/30	.030	.010	.040	.365
CVU-220725	25	22	7/30	.030	.010	.040	.370
CVU-220730	30	22	7/30	.030	.010	.040	.400
CVU-220740	40	22	7/30	.030	.010	.040	.455
CVU-220750	50	22	7/30	.030	.010	.045	.500
CVU-220760	60	22	7/30	.030	.010	.045	.536
CVU-220770	70	22	7/30	.030	.010	.050	.610
CVU-220780	80	22	7/30	.030	.010	.050	.630
CVU-220790	90	22	7/30	.030	.010	.050	.660
CVU-2207000	100	22	7/30	.030	.010	.050	.710
CVU-201002	2	20	10/30	.038	.016	.032	.200
CVU-201003	3	20	10/30	.038	.016	.032	.210
CVU-201004	4	20	10/30	.038	.016	.032	.230
CVU-201005	5	20	10/30	.038	.016	.032	.256
CVU-201006	6	20	10/30	.038	.016	.032	.260
CVU-201007	7	20	10/30	.038	.016	.032	.270
CVU-201008	8	20	10/30	.038	.016	.032	.285
CVU-201009	9	20	10/30	.038	.016	.035	.317
CVU-201010	10	20	10/30	.038	.016	.035	.318
CVU-201012	12	20	10/30	.038	.016	.035	.338
CVU-201015	15	20	10/30	.038	.016	.040	.389
CVU-201020	20	20	10/30	.038	.016	.040	.430
CVU-201025	25	20	10/30	.038	.016	.040	.471
CVU-181602	2	18	16/30	.050	.016	.032	.230
CVU-181603	3	18	16/30	.050	.016	.032	.242

Part Number	No. Cond.	AWG Size	No. Strands	Diam. Conductor inches	Insulation Thick. inches	Jacket Thick. inches	Nom. O.D. inches
CVU-181604	4	18	16/30	.050	.016	.032	.254
CVU-181605	5	18	16/30	.050	.016	.037	.286
CVU-181606	6	18	16/30	.050	.016	.037	.289
CVU-181607	7	18	16/30	.050	.016	.037	.324
CVU-181608	8	18	16/30	.050	.016	.037	.341
CVU-181609	9	18	16/30	.050	.016	.037	.379
CVU-181610	10	18	16/30	.050	.016	.037	.385
CVU-181612	12	18	16/30	.050	.016	.040	.412
CVU-181615	15	18	16/30	.050	.016	.045	.465
CVU-181619	19	18	16/30	.050	.016	.045	.505
CVU-181620	20	18	16/30	.050	.016	.045	.511
CVU-181625	25	18	16/30	.050	.016	.060	.600
CVU-162602	2	16	26/30	.062	.031	.032	.308
CVU-162603	3	16	26/30	.062	.031	.032	.329
CVU-162604	4	16	26/30	.062	.031	.045	.375
CVU-162605	5	16	26/30	.062	.031	.045	.405
CVU-162606	6	16	26/30	.062	.031	.045	.410
CVU-162607	7	16	26/30	.062	.031	.045	.455
CVU-162608	8	16	26/30	.062	.031	.045	.495
CVU-162609	9	16	26/30	.062	.031	.045	.500
CVU-162610	10	16	26/30	.062	.031	.045	.534
CVU-162612	12	16	26/30	.062	.031	.060	.610
CVU-162615	15	16	26/30	.062	.031	.060	.670
CVU-162619	19	16	26/30	.062	.031	.065	.700
CVU-162620	20	16	26/30	.062	.031	.065	.757
CVU-162625	25	16	26/30	.062	.031	.065	.850
CVU-144102	2	14	41/30	.080	.031	.035	.354
CVU-144103	3	14	41/30	.080	.031	.035	.378
CVU-144104	4	14	41/30	.080	.031	.045	.434
CVU-144105	5	14	41/30	.080	.031	.060	.485
CVU-144107	7	14	41/30	.080	.031	.060	.546
CVU-144109	9	14	41/30	.080	.031	.065	.620
CVU-144112	12	14	41/30	.080	.031	.065	.695
CVU-144115	15	14	41/30	.080	.031	.080	.792
CVU-126502	2	12	65/30	.096	.031	.040	.396
CVU-126503	3	12	65/30	.096	.031	.040	.423
CVU-126504	4	12	65/30	.096	.031	.045	.472
CVU-126507	7	12	65/30	.096	.031	.060	.594

See color code chart #4, p. 51

NEC Type CL2 & CM
Conductor: Tinned Copper. Insulation: Color Coded PVC. Construction: Conductors paired with short lay twist for balance providing a circuit free from crosstalk, pairs cabled Jacket: Chrome gray PVC. Temperature Rating: -20" - +80"C
Applications: Heavy-duty intercom and audio cable for intercom systems, signal systems, annunciators, nurse's call systems, multiple speaker systems and control circuit cables.

Part Number	Number of Pairs	Number of Cond.	Cond. Size	Cond. Stranding	Nom. Insul. Thickness (Inches)	Nom. Jacket Thickness (Inches)	Nom. O.D. (Inches)
CVP-220101	1	2	22	Solid	.012 200V	.025	.150
CVP-220102	2	4	22	Solid	.015 300V	.030	.245
CVP-220103	3	6	22	Solid	.015 300V	.030	.260
CVP-220104	4	8	22	Solid	.015 300V	.030	.283
CVP-220105	5	10	22	Solid	.015 300V	.030	.305
CVP-220106	6	12	22	Solid	.012 200V	.025	.280
CVP-220107	7	14	22	Solid	.012 200V	.025	.295
CVP-220108	8	16	22	Solid	.015 300V	.030	.375
CVP-220109	9	18	22	Solid	.012 200V	.030	.335
CVP-220111	11	22	22	Solid	.012 200V	.030	.370
CVP-220113	13	26	22	Solid	.012 200V	.035	.410
CVP-220115	15	30	22	Solid	.012 200V	.035	.430
CVP-220116	16	32	22	Solid	.012 200V	.035	.440
CVP-220119	19	38	22	Solid	.012 200V	.035	.460
CVP-220123	23	46	22	Solid	.012 200V	.040	.525
CVP-220127	27	54	22	Solid	.012 200V	.040	.565
CVP-220141	41	82	22	Solid	.012 200V	.045	.685
CVP-220151	51	102	22	Solid	.012 200V	.060	.765
CVP-220702	2	4	22	7/30	.015 300V	.030	.260
CVP-220703	3	6	22	7/30	.015 300V	.030	.275
CVP-220704	4	8	22	7/30	.015 300V	.030	.298
CVP-220706	6	12	22	7/30	.010 150V	.030	.288
CVP-220709	9	18	22	7/30	.010 150V	.030	.344
CVP-220712	12	24	22	7/30	.010 150V	.030	.387
CVP-220715	15	30	22	7/30	.010 150V	.035	.435
CVP-220719	19	38	22	7/30	.010 150V	.035	.470
CVP-220723	23	46	22	7/30	.010 150V	.040	.530
CVP-220727	27	54	22	7/30	.010 150V	.040	.570
CVP-220731	31	62	22	7/30	.010 150V	.050	.635
CVP-220741	41	82	22	7/30	.010 150V	.060	.730
CVP-220751	51	102	22	7/30	.010 150V	.060	.780
CVP-201003	3	6	20	10/30	.015 300V	.030	.280
CVP-201006	6	12	20	10/30	.015 300V	.030	.360
CVP-201009	9	18	20	10/30	.015 300V	.035	.455
CVP-201015	15	30	20	10/30	.015 300V	.040	.600
CVP-181601	1	2	18	16/30	.018 300V	.030	.230
CVP-181602	2	4	18	16/30	.018 300V	.035	.310
CVP-181603	3	6	18	16/30	.018 300V	.035	.330
CVP-181604	4	8	18	16/30	.018 300V	.035	.370
CVP-181605	5	10	18	16/30	.018 300V	.035	.400
CVP-181606	6	12	18	16/30	.018 300V	.035	.440
CVP-181608	8	16	18	16/30	.018 300V	.040	.500
CVP-181609	9	18	18	16/30	.018 300V	.040	.545
CVP-181612	12	24	18	16/30	.018 300V	.050	.640
CVP-181615	15	30	18	16/30	.018 300V	.060	.750
CVP-181619	19	38	18	16/30	.018 300V	.060	.795

See Color Coding of Pairs Page 45

AUDIO MULTI-PAIRED SHIELDED CABLE

NEC Type CL2 & CM. UL 2464 Conductor: Tinned Copper. Insulation: Color Coded PVC Construction: Cabled in pairs. Jacket: Overall PVC. Shield: Overall Aluminum Foil. Drain Wire: Stranded Tinned Copper, 24AWG 7/32 Temperature Rating: -20" - +60"C Applications: Audio, Communications and Instrumentation use.

Part Number	AWG	Number of Pairs	Stranding	Nom. Insul. Thickness (Inches)	Nom. Jacket Thickness (Inches)	Nom. O.D. (Inches)
CVF-240701	24	1	7x32	.010	.032	.156
CVF-240702	24	2	7x32	.010	.032	.222
CVF-240703	24	3	7x32	.010	.032	.232
CVF-240704	24	4	7x32	.010	.032	.252
CVF-240705	24	5	7x32	.010	.035	.295
CVF-240706	24	6	7x32	.010	.035	.295
CVF-240707	24	7	7x32	.010	.035	.300
CVF-240708	24	8	7x32	.010	.035	.330
CVF-240709	24	9	7x32	.010	.037	.340
CVF-240710	24	10	7x32	.010	.040	.380
CVF-240715	24	15	7x32	.010	.040	.425
CVF-240719	24	19	7x32	.010	.040	.450
CVF-240725	24	25	7x32	.010	.045	.530
CVF-240750	24	50	7x32	.010	.050	.715
CVF-220102	22	2	Solid	.013	.032	.224
CVF-220104	22	4	Solid	.013	.032	.265
CVF-220106	22	6	Solid	.013	.035	.321
CVF-220107	22	7	Solid	.013	.037	.373
CVF-220115	22	15	Solid	.013	.040	.437
CVF-220119	22	19	Solid	.013	.040	.475
CVF-220127	22	27	Solid	.013	.045	.571
CVF-220701	22	1	7x30	.010	.032	.175
CVF-220702	22	2	7x30	.010	.032	.235
CVF-220703	22	3	7x30	.010	.032	.265
CVF-220704	22	4	7x30	.010	.032	.300
CVF-220705	22	5	7x30	.010	.032	.315
CVF-220706	22	6	7x30	.010	.032	.325
CVF-220709	22	9	7x30	.010	.032	.400
CVF-220711	22	11	7x30	.010	.032	.420
CVF-220715	22	15	7x30	.010	.032	.475
CVF-220719	22	19	7x30	.010	.032	.510
CVF-220727	22	27	7x30	.010	.032	.625
CVF-220751	22	51	7x30	.010	.085	.850
CVF-220777	22	77	7x30	.010	.085	1.005
CVF-2207102	22	102	7x30	.010	.085	1.120

See color coding of pairs, page 54.

UL Listed 2095 Shielded Audio Cables. Conductor: Tinned Copper. Insulation: Color Coded PVC. Construction: Cabled Jacket: Overall PVC Chrome gray. Shield: Tinned Copper Braid Temperature Rating: -20" - +60"C.

Part Number	No. of Cond.	Cond. Size	Cond. Stranding	Nom. Insulation Thickness	Nom. Jacket Thickness	Approx. % Shield Coverage	Suggested Working Voltage	Nom. O.D. (Inches)
CVB-200102	2	20	Solid	.015	.025	75	200V	.205
CVB-180102	2	18	Solid	.015	.025	75	200V	.220
CVB-220702	2	22	7/30	.015	.025	75	200V	.200
CVB-220703	3	22	7/30	.015	.025	75	200V	.210
CVB-220704	4	22	7/30	.015	.025	75	200V	.225
CVB-201002	2	20	10/30	.015	.025	75	200V	.215
CVB-201003	3	20	10/30	.015	.025	75	200V	.225
CVB-201004	4	20	10/30	.015	.025	75	200V	.245
CVB-181602	2	18	16/30	.018	.025	75	300V	.245
CVB-181603	3	18	16/30	.018	.025	75	300V	.260
CVB-181604	4	18	16/30	.018	.025	75	300V	.280
CVB-162602	2	16	26/30	.018	.025	75	300V	.270
CVB-162603	3	16	26/30	.018	.025	75	300V	.285
CVB-144102	2	14	41/30	.020	.030	75	250V	.320
CVB-144103	3	14	41/30	.020	.030	75	250V	.335
CVB-126502	2	12	65/30	.020	.030	75	250V	.360
CVB-125503	3	12	65/30	.020	.030	75	250V	.380

Color code 1-Black, 2-Red, 3-White, 4-Green.

UL Listed 2493 NEC Type CL2 & CM - Conductor: Stranded Tinned Copper. Insulation: Color Coded Polypropylene . Construction: Cabled in pairs. Jacket: Overall PVC Chrome gray Shield: Flexfoil aluminum foil/polyester. Specifications: Jacket: +60"C. Conductors: +105"C. Suggested working voltage: 22AWG - 300V; 20AWG - 300V; 18AWG - 300V. 100 Megohms/M insulation resistance between shields. 115 PF/FT. capacitance between adjacent shields. 1500V voltage breakdowns between adjacent shields. 50V working voltage between adjacent shields. 22 gauge and 20 gauge series - 22 gauge drain wire; 18 gauge series - 20 gauge drain wire. Jacket only passes VW-1 vertical flame test. Applications: For audio RF and pulse applications requiring superior circuit isolation. The use of polypropylene insulation results in excellent high frequency properties and mechanical durability.

Part Number	No. of Pairs	No. of Cond.	Cond. Size	Cond. Stranding	Nom. Insul. Thickness (Inches)	Nom. Jacket Thickness (Inches)	Nom. O.D. (Inches)	Nom. Cap.* PF/FT	Nom. Cap** PF/FT
CVD-220703	3	6	22	7/30	.010	.045	.295	30	55
CVD-220706	6	12	22	7/30	.010	.045	.375	30	55
CVD-220709	9	18	22	7/30	.010	.045	.430	30	55
CVD-220711	11	22	22	7/30	.010	.045	.465	30	55
CVD-220712	12	24	22	7/30	.010	.045	.480	30	55
CVD-220715	15	30	22	7/30	.010	.060	.565	30	55
CVD-220717	17	34	22	7/30	.010	.060	.590	30	55
CVD-220719	19	38	22	7/30	.010	.060	.620	30	55
CVD-220727	27	54	22	7/30	.010	.060	.700	30	55
CVD-201003	3	6	20	10/30	.013	.045	.340	30	55
CVD-201006	6	12	20	10/30	.013	.045	.435	30	55
CVD-201009	9	18	20	10/30	.013	.045	.500	30	55
CVD-201011	11	22	20	10/30	.013	.060	.580	30	55
CVD-201012	12	24	20	10/30	.013	.060	.595	30	55
CVD-201013	13	26	20	10/30	.013	.060	.625	30	55
CVD-201015	15	30	20	10/30	.013	.060	.655	30	55
CVD-181603	3	6	18	16/30	.016	.045	.400	30	55
CVD-181606	6	12	18	16/30	.016	.045	.495	30	55
CVD-181609	9	18	18	16/30	.016	.060	.590	30	55
CVD-181612	12	24	18	16/30	.016	.070	.705	30	55
CVD-181615	15	30	18	16/30	.016	.070	.785	30	55

UL Listed 2464 - Conductor: Solid Tinned Copper. Insulation: Color Coded PVC. Construction: Cabled in pairs. Jacket: Overall PVC Chrome gray. Shield: Flexfoil aluminum foil/polyester w/drain wire. Temperature Rating: +20"C - +80"C. Voltage Rating: 300V. 100 Megohms/M insulation resistance between shields. 115 PF/FT. capacitance between adjacent shields. 1500V voltage breakdowns between adjacent shields. 50V working voltage between adjacent shields. Entire cable passes VW-1 vertical flame test. Applications: For audio RF and pulse applications requiring superior circuit isolation.

Part Number	No. of Pairs	No. of Cond.	Cond. Size	Cond. Stranding	Nom. Insul. Thickness (Inches)	Nom. Jacket Thickness (Inches)	Suggested Working Voltage	Nom. O.D. (Inches)
CVE-220103	3	6	22	Solid	.015	.035	300V	.280
CVE-220106	6	12	22	Solid	.015	.035	300V	.370
CVE-220109	9	18	22	Solid	.015	.040	300V	.435
CVE-220111	11	22	22	Solid	.015	.040	300V	.475
CVE-220115	15	30	22	Solid	.015	.045	300V	.555

See color coding of pairs, page 45.

Mylar/Foil Shield NEC Type CL2 & CM - Conductor: Tinned Copper. Insulation: Color Coded Polyethylene. Jacket: Overall PVC Chrome gray. Shield: Flexfoil mylar supported aluminum foil/polyester foil facing out. Drain Wire: Stranded Tinned Copper. Temperature Rating: -20°C to +60°C. Jacket only passes VW-1 vertical flame test. Applications: 100% shielded cable for recording studios, broadcast sound systems and electronic circuits where RF shielding is required.

Part Number	No. of Cond.	Cond. Size	Cond. Stranding	Size of Drain Wire	Nom. Insul. Thickness (Inches)	Nom. Jacket Thickness (Inches)	Percent Shield Coverage	Suggested Working Voltage	Nom. O.D. (Inches)
CVA-240702	2	24	7/32	24	.015 (UL-2092)	.025	100	300V	.160
CVA-220702	2	22	7/30	22	.015 (UL-2092)	.025	100	300V	.170
CVA-220703	3	22	7/30	22	.015 (UL-2093)	.025	100	300V	.180
CVA-220704	4	22	7/30	22	.015 (UL-2094)	.025	100	300V	.195
CVA-201002-UL	2	20	10/30	22	.015 PVC	.031	100	300V	.205
UL Listed (Style 2464) Insulation - 1 conductor black, 1 conductor red.									
CVA-201002	2	20	10/30	20	.015 (UL-2092)	.025	100	300V	.185
CVA-201003	3	20	10/30	20	.015 (UL-2093)	.028	100	300V	.205
CVA-181602	2	18	16/30	20	.018 (UL-2092)	.028	100	300V	.225
CVA-181603	3	18	16/30	20	.018 (UL-2093)	.028	100	300V	.240
CVA-162602	2	16	26/30	18	.030 (UL-2106)	.030	100	600V	.310
CVA-162603	3	16	26/30	18	.030 (UL-2107)	.030	100	600V	.325
CVA-144102	2	14	41/30	16	.032 (UL-2106)	.035	100	600V	.350
CVA-126502	2	12	65/30	14	.037 (UL-2106)	.040	100	600V	.410

Color Code 1, black; 2, clear; 3, red; 4, green.

COMPUTER CONTROL CABLE

Miniature Control Cables - UL Styles 2343 and 2344 - NEC Type CL2 & CM
Multi Conductor Shielded and Unshielded Cables. Conductor: Stranded Tinned Copper. Insulation: .010 wall PVC. Jacket: Vinyl. Temperature Rating: 105"C. Voltage Rating: 600V. Specifications: Number 22AWG, 24AWG are 7 strand, 20AWG is 19 strand. Insulated with .010 wall of PVC to MIL-W-16878D Type B. Conductors are rated 105°C and 600V working voltage. The conductors also meet UL Style 1061, rated 80°C 300V working voltage. Conductors are planetary cabled and laid with a Mylar tape barrier placed under shields. All shielded cables are of tinned copper braid overall of 85% - 90% coverage per MIL-C-7078. The jacket is gray 105°C Vinyl per MIL-1-631 Type F. All items approved under UL STYLE 2343 or 2344 for computer usage: +80°C, 300 Volts. On non-UL service can be used at 40°C to +105°C, 600 Volts.

MULTI-CONDUCTOR UNSHIELDED CABLES

IWC Part Number	No. of Cond.	Cond. Size	Cond. O.D.	Jacket Wall	Nom. O.D.	Weight lbs./M
CVI-240705	5	24	.044	.062	.220	32
CVI-240707	7	24	.044	.062	.250	40
CVI-240712	12	24	.044	.062	.300	53
CVI-240715	15	24	.044	.062	.330	65
CVI-240719	19	24	.044	.062	.340	73
CVI-240727	27	24	.044	.062	.390	85
CVI-240737	37	24	.044	.062	.420	120
CVI-240748	48	24	.044	.062	.470	142
CVI-240760	60	24	.044	.062	.510	170
CVI-220705	5	22	.050	.062	.260	40
CVI-220707	7	22	.050	.062	.275	48
CVI-220712	12	22	.050	.062	.330	72
CVI-220715	15	22	.050	.062	.350	85
CVI-220719	19	22	.050	.062	.370	96
CVI-220727	27	22	.050	.062	.430	130
CVI-220737	37	22	.050	.062	.480	163
CVI-220748	48	22	.050	.062	.530	210
CVI-220760	60	22	.050	.062	.570	255
CVI-201905	5	20	.058	.062	.275	49
CVI-201907	7	20	.058	.062	.290	59
CVI-201912	12	20	.058	.062	.360	90
CVI-201915	15	20	.058	.062	.390	110
CVI-201919	19	20	.058	.062	.410	128
CVI-201927	27	20	.058	.062	.490	166
CVI-201937	37	20	.058	.062	.520	220
CVI-201948	48	20	.058	.062	.580	275
CVI-201960	60	20	.058	.062	.640	335

MULTI-CONDUCTOR, OVERALL SHIELD CABLES

IWC Part Number	No. of Cond.	Cond. Size	Cond. O.D.	Jacket Wall	Nom. O.D.	Weight lbs./M
CVJ-240705	5	24	.044	.062	.245	44
CVJ-240707	7	24	.044	.062	.275	55
CVJ-240712	12	24	.044	.062	.325	68
CVJ-240715	15	24	.044	.062	.350	80
CVJ-240719	19	24	.044	.062	.365	88
CVJ-240727	27	24	.044	.062	.415	102
CVJ-240737	37	24	.044	.062	.445	140
CVJ-240748	48	24	.044	.062	.495	172
CVJ-240760	60	24	.044	.062	.535	205
CVJ-220705	5	22	.050	.062	.285	50
CVJ-220707	7	22	.050	.062	.295	58
CVJ-220712	12	22	.050	.062	.355	87
CVJ-220715	15	22	.050	.062	.380	101
CVJ-220719	19	22	.050	.062	.395	111
CVJ-220727	27	22	.050	.062	.455	150
CVJ-220737	37	22	.050	.062	.510	193
CVJ-220748	48	22	.050	.062	.560	245
CVJ-220760	60	22	.050	.062	.600	295
CVJ-201905	5	20	.058	.062	.300	59
CVJ-201907	7	20	.058	.062	.315	69
CVJ-201912	12	20	.058	.062	.385	105
CVJ-201915	15	20	.058	.062	.415	137
CVJ-201919	19	20	.058	.062	.435	158
CVJ-201927	27	20	.058	.062	.515	196
CVJ-201937	37	20	.058	.062	.550	255
CVJ-201948	48	20	.058	.062	.610	320
CVJ-201960	60	20	.058	.062	.670	385

No. 4 Color Code Multi-Conductor

1. Black
2. Brown
3. Red
4. Orange
5. Yellow
6. Green
7. Blue
8. Violet
9. Gray
10. White
11. White/Black
12. White/Brown
13. White/Red
14. White/Orange
15. White/Yellow
16. White/Green
17. White/Blue
18. White/Violet
19. White/Gray
20. White/Black/Brown
21. White/Black/Red
22. White/Black/Orange
23. White/Black/Yellow
24. White/Black/Green
25. White/Black/Blue
26. White/Black/Violet
27. White/Black/Gray
28. White/Brown/Red
29. White/Brown/Orange
30. White/Brown/Yellow
31. White/Brown/Green
32. White/Brown/Blue
33. White/Brown/Violet
34. White/Brown/Gray
35. White/Red/Orange
36. White/Red/Yellow
37. White/Red/Green
38. White/Red/Blue
39. White/Red/Violet
40. White/Red/Gray
41. White/Orange/Yellow
42. White/Orange/Green
43. White/Orange/Blue
44. White/Orange/Violet
45. White/Orange/Gray
46. White/Yellow/Green
47. White/Yellow/Blue
48. White/Yellow/Violet
49. White/Yellow/Gray
50. White/Green/Blue
51. White/Green/Violet
52. White/Green/Gray
53. White/Blue/Violet
54. White/Blue/Gray
55. White/Violet/Gray
56. White/Black/Brown/Red
57. White/Black/Brown/Orange
58. White/Black/Brown/Yellow
59. White/Black/Brown/Green
60. White/Black/Brown/Blue
61. White/Black/Brown/Violet
62. White/Black/Brown/Gray
63. White/Black/Red/Yellow
64. White/Black/Red/Green
65. White/Black/Red/Blue
66. White/Black/Red/Violet
67. White/Black/Red/Gray
68. White/Black/Orange/Yellow
69. White/Black/Orange/Green
70. White/Black/Orange/Blue
71. White/Black/Orange/Violet
72. White/Black/Orange/Gray
73. White/Black/Yellow/Green
74. White/Black/Yellow/Blue
75. White/Black/Yellow/Violet
76. White/Black/Yellow/Gray
77. White/Black/Green/Blue
78. White/Black/Green/Violet
79. White/Black/Green/Gray
80. White/Black/Blue/Violet
81. White/Black/Blue/Gray
82. White/BlackViolet/Gray
83. White/Brown/Red/Orange
84. White/Brown/Red/Yellow
85. White/Brown/Red/Green
86. White/Brown/Red/Blue
87. White/Brown/Red/Violet
88. White/Brown/Red/Gray
89. White/Brown/Orange/Yellow
90. White/Brown/Orange/Green
91. White/Brown/Orange/Blue
92. White/Brown/Orange/Violet
93. White/Brown/Orange/Gray
94. White/Brown/Yellow/Green
95. White/Brown/Yellow/Blue
96. White/Brown/Yellow/Violet
97. White/Brown/Yellow/Gray
98. White/Brown/Green/Blue
99. White/Brown/Green/Violet
100. White/Brown/Green/Gray

Miniature Control Cables - UL Styles 2343 and 2344, NEC Type CL2 & CM
Paired Cables shielded and unshielded. Conductor: Stranded Tinned Copper. Insulation: .010 wall PVC. Jacket: Black 105”C Vinyl. Temperature Rating: 105”C. Specifications: Number 22AWG, 24AWG are 7 strand, 20AWG is 19 strand. Insulated with .010 wall of PVC to MIL-W-16878D Type B. Conductors are rated 105°C and 600V working voltage. The conductors also meet UL Style 1061, rated 80°C, 300V working voltage. Pairs are planetary cabled and laid contra-helically with a Mylar tape barrier placed under shields. All shielded cables are of tinned copper braid overall of 85% - 90% coverage per MIL-1-7078. The jacket is black 105°C Vinyl per MIL-1-631 Type F. All items approved under UL STYLE 2343 or 2344 for computer usage: +80°C, 300V. On non-UL service can be used at 40°C to +105°C, 600 Volts.

UNSHIELDED PAIRED CABLES

IWC Part Number	No. of Pairs	Cond. Size	Cond. O.D.	Jacket Wall	Nom. O.D.	Weight lbs./M
CVG-240705	5	24	.044	.062	.330	52
CVG-240707	7	24	.044	.062	.350	60
CVG-240712	12	24	.044	.062	.435	90
CVG-240715	15	24	.044	.062	.485	110
CVG-240719	19	24	.044	.062	.505	126
CVG-240727	27	24	.044	.062	.590	167
CVG-240737	37	24	.044	.062	.660	216
CVG-240748	48	24	.044	.062	.745	270
CVG-240760	60	24	.044	.062	.815	325
CVG-220705	5	22	.050	.062	.365	56
CVG-220707	7	22	.050	.062	.390	82
CVG-220712	12	22	.050	.062	.470	120
CVG-220715	15	22	.050	.062	.545	145
CVG-220719	19	22	.050	.062	.560	170
CVG-220727	27	22	.050	.062	.600	230
CVG-220737	37	22	.050	.062	.750	300
CVG-220748	48	22	.050	.062	.850	375
CVG-220760	60	22	.050	.062	.980	460
CVG-201905	5	20	.058	.062	.395	82
CVG-201907	7	20	.058	.062	.440	108
CVG-201912	12	20	.058	.062	.540	163
CVG-201915	15	20	.058	.062	.600	196
CVG-201919	19	20	.058	.062	.630	235
CVG-201927	27	20	.058	.062	.745	320
CVG-201937	37	20	.058	.062	.820	420
CVG-201948	48	20	.058	.080	.950	530
CVG-201960	60	20	.058	.080	1.040	650

PAIRED CABLES WITH OVERALL SHIELD

IWC Part Number	No. of Pairs	Cond. Size	Cond. O.D.	Jacket Wall	Nom. O.D.	Weight lbs./M
CVH-240705	5	24	.044	.062	.355	67
CVH-240707	7	24	.044	.062	.375	75
CVH-240712	12	24	.044	.062	.460	115
CVH-240715	15	24	.044	.062	.510	140
CVH-240719	19	24	.044	.062	.530	161
CVH-240727	27	24	.044	.062	.620	211
CVH-240737	37	24	.044	.062	.690	266
CVH-240748	48	24	.044	.062	.775	330
CVH-240760	60	24	.044	.062	.845	390
CVH-220705	5	22	.050	.062	.390	77
CVH-220707	7	22	.050	.062	.415	100
CVH-220712	12	22	.050	.062	.495	150
CVH-220715	15	22	.050	.062	.575	185
CVH-220719	19	22	.050	.062	.580	210
CVH-220727	27	22	.050	.062	.670	280
CVH-220737	37	22	.050	.062	.780	357
CVH-220748	48	22	.050	.062	.880	445
CVH-220760	60	22	.050	.062	.960	535
CVH-201905	5	20	.058	.062	.420	102
CVH-201907	7	20	.058	.062	.465	123
CVH-201912	12	20	.058	.062	.570	203
CVH-201915	15	20	.058	.062	.630	241
CVH-210919	19	20	.058	.062	.660	280
CVH-201927	27	20	.058	.062	.775	380
CVH-201937	37	20	.058	.080	.850	490
CVH-201948	48	20	.058	.080	.980	605
CVH-201960	60	20	.058	.080	1.070	735

COLOR CODING ON TWISTED PAIRS

1. White with Black
2. White with Brown
3. White with Red
4. White with Orange
5. White with Yellow
6. White with Green
7. White with Blue
8. White with Violet
9. White with Gray
10. Black with Brown
11. Black with Red
12. Black with Orange
13. Black with Yellow
14. Black with Green
15. Black with Blue
16. Black with Violet
17. Black with Gray
18. Brown with Red
19. Brown with Orange
20. Brown with Yellow
21. Brown with Green
22. Brown with Blue
23. Brown with Violet
24. Brown with Gray
25. Red with Orange
26. Red with Yellow
27. Red with Green
28. Red with Blue
29. Red with Violet
30. Red with Gray
31. Orange with Yellow
32. Orange with Green
33. Orange with Blue
34. Orange with Violet
35. Orange with Gray
36. Yellow with Green
37. Yellow with Blue
38. Yellow with Violet
39. Yellow with Gray
40. Green with Blue
41. Green with Violet
42. Green with Gray
43. Blue with Violet
44. Blue with Gray
45. Violet with Gray
46. White/Black with Black
47. White/Black with Brown
48. White/Black with Red
49. White/Black with Orange
50. White/Black with Yellow
51. White/Black with Green
52. White/Black with Blue
53. White/Black with Violet
54. White/Black with Gray
55. White/Brown with Black
56. White/Brown with Brown
57. White/Brown with Red
58. White/Brown with Orange
59. White/Brown with Yellow
60. White/Brown with Green

Plastic Jacketed Mic Cable - Conductor: Stranded Tinned Copper. Insulation: Color Coded Polyethylene. Jacket: Flexible PVC. Shield: Tinned Copper (braid or spiral) Temperature Rating: -20”C - +40”C. Specifications:Cabled with fillers, tape wrap.

Part Number	No. of Cond.	AWG & Stranding	Nom. Insulation Thickness (Inches)	Shield Type	Nom. Jacket Thickness (Inches)	Suggested Working Voltage	Nom. O.D. (Inches)	*Nom. Capacitance pF/Ft.
CVM-1802-1	2	18 (41/34)	.025	Braid	.030	1000V	.295	45
CVM-2202-1	2	22 (16/34)	.020	Spiral	.020	600V	.230	35
CVM-2202-2	2	22 (16/34)	.025	Braid	.025	1000V	.235	31
CVM-2202-3	2	22 (16/34)	.025	Spiral	.025	1000V	.230	31
CVM-2402-1	2	24 (16/34)	.016	Spiral	.030	1000V	.190	38
CVM-2501-1	1	25 (1)	.075	Spiral	.030	1000V	.250	13
CVM-2501-2	1	25 (1)	.050	Spiral	.025	1000V	.185	13
CVM-2501-3	1	25 (1)	.030	Spiral	.020	800V	.135	19
CVM-2501-4	1	25 (1)	.020	Spiral	.020	500V	.155	33
CVM-2501-5	1	25 (1)	.016	Spiral	.012	500V	.090	29

Rubber & Neoprene Jacketed Mic Cable - Conductor: Stranded Tinned Copper. Insulation: Color Coded Rubber, Clear Mylar Wrap. Jacket: Rubber or Neoprene, Cotton Wrap. Shield: Braided Tinned Copper. Temperature Rating: -20”C - +60”CVoltage Rating: 600V

Part Number	No. of Cond.	AWG & Stranding	Nom. Insulation Thickness (Inches)	Jacket Material	Nom. Jacket Thickness (Inches)	Suggested Working Voltage	Nom. O.D. (Inches)	*Nom. Capacitance pF/Ft.
CNM-1601-1	1	16 (65/34)	.040	NEO.	.035	600V	.390	47
CNM-1602-1	2	16 (65/34)	.025	NEO.	.035	600V	.335	55
CNM-1802-1	2	18 (41/34)	.020	NEO.	.035	600V	.295	61
CNM-1802-1	2	18 (41/34)	.020	RUB.	.035	600V	.295	61
CNM-1801-1	1	18 (41/34)	.040	NEO.	.035	600V	.240	46
CNM-1801-1	1	18 (41/34)	.040	RUB.	.035	600V	.240	46
CNM-2002-1	2	20 (26/34)	.020	RUB.	.035	600V	.210	50
CNM-2001-1	1	20 (26/34)	.040	RUB.	.035	600V	.230	42
CNM-2001-2	1	20 (26/34)	.025	RUB.	.030	600V	.190	55

PLANAR RIBBON CABLE, UL STYLE 2651 105°C, 300V
Characteristics: Conductor: 28 AWG 7/36 Tinned Copper. Insulation: Specially formulated PVC. Cable: Flammability: per UL VW-1. Typical Electrical Values Gnd. Sig. Gnd. Mode: Characteristic Impedance, 105 ohms. Capacitance, 14 pf/ft @ 10kHz. Time delay, 1.4 ns/ft. Conductor Resistance, 67.5 ohms/1000 ft. Crosstalk per 10 ft. section: Near End-3.5 ns rise time-11.0%. Near End-7.0 ns rise time-11.0%. Far End-3.5 ns rise time-3.5%. Far End-7.0 ns rise time-3.0%.

IWC	Cond.	Dimensions (Inches) Width W	Span S	Weight lbs/100
CFA-280709	9	.450 – .010	.400 – .007	1.4
CFA-280710	10	.500 – .010	.450 – .007	1.6
CFA-280714	14	.700 – .010	.650 – .007	2.2
CFA-280715	15	.750 – .015	.700 – .011	2.4
CFA-280716	16	.800 – .015	.750 – .011	2.5
CFA-280720	20	1.000 – .015	.950 – .011	3.2
CFA-280724	24	1.200 – .015	1.150 – .011	3.8
CFA-280725	25	1.250 – .015	1.200 – .011	3.9
CFA-280726	26	1.300 – .015	1.250 – .011	4.1
CFA-280734	34	1.700 – .020	1.650 – .015	5.4
CFA-280737	37	1.850 – .020	1.800 – .015	5.8
CFA-280740	40	2.000 – .020	1.950 – .015	6.3
CFA-280750	50	2.500 – .020	2.450 – .015	7.9
CFA-280760	60	3.000 – .020	2.950 – .015	9.5
CFA-280764	64	3.200 – .020	3.150 – .015	10.2

Retractile Coil Cords - UL & CSA Listed, Power Coil Cords - Conductor: Stranded Bare Copper, Extra Flexible Stranding. Insulation: Color Coded Rubber with fillers, separator over core. Jacket: Neoprene Overall. Temperature Rating: -20”C - +60”CSpecifications: Surface printed for identification. Resists abrasion, oil, sunlight, acids, alkalis and water. 2 ft. retracted expands to 12 ft., 4 ft. retracted expands to 25 ft. All cords have 6 straight piece on each end.

Part Number	Retracted Length	No. Cond.	AWG Size & Stranding	UL Type	AMP Rating	Volt Rating	Coil O.D.	Cord O.D.
CRP-1-2	2	2	18-41/34	SVO	7.0	300	7/8"	.260"
CRP-1-4	4	2	18-41/34	SVO	7.0	300	7/8"	.260"
CRP-2-2	2	3	18-41/34	SVO	7.0	300	1"	.275"
CRP-2-4	4	3	18-41/34	SVO	7.0	300	1"	.275"
CRP-3-2	2	2	18-41/34	SJO	7.0	300	1 3/16"	.320"
CRP-3-4	4	2	18-41/34	SJO	7.0	300	1 3/16"	.320"
CRP-4-2	2	3	18-41/34	SJO	7.0	300	1 3/8"	.350"
CRP-4-4	4	3	18-41/34	SJO	7.0	300	1 3/8"	.350"
CRP-5-2	2	4	18-41/34	SJO	5.6	300	1 7/16"	.385"
CRP-5-4	4	4	18-41/34	SJO	5.6	300	1 7/16"	.385"
CRP-6-2	2	2	16-65/34	SJO	10.0	300	1 3/8"	.360"
CRP-6-4	4	2	16-65/34	SJO	10.0	300	1 3/8"	.360"
CRP-7-2	2	3	16-65/34	SJO	10.0	300	1 7/16"	.390"
CRP-7-4	4	3	16-65/34	SJO	10.0	300	1 7/16"	.390"
CRP-8-2	2	4	16-65/34	SJO	8.0	300	1 1/2"	.425"
CRP-8-4	4	4	16-65/34	SJO	8.0	300	1 1/2"	.425"
CRP-9-2	2	3	16-65/34	SO	10.0	600	1 13/16"	.470"
CRP-9-4	4	3	16-65/34	SO	10.0	600	1 13/16"	.470"
CRP-10-2	2	4	14-65/34	SO	8.0	600	1 7/8"	.500"
CRP-10-4	4	4	14-65/34	SO	8.0	600	1 7/8"	.500"
CRP-11-2	2	3	14-41/30	SO	15.0	600	2 1/8"	.560"
CRP-11-4	4	3	14-41/30	SO	15.0	600	2 1/8"	.560"
CRP-12-2	2	4	14-41/30	SO	12.0	600	2 1/4"	.605"
CRP-12-4	4	4	14-41/30	SO	12.0	600	2 1/4"	.605"

Other sizes and constuctions available upon request.

Unshielded Multi Conductor Communication Coil Cord - Conductor: Tinned Copper
Jacket: Long Life Plastic, Very Flexible. Nominal Conductor Resistance: .022 ohms per linear foot, 185 ohms per retracted ft. Specifications: 2ft retracted extends to 12ft. 4ft retracted extends to 25ft. For use in communications equipment, mobile units, headsets, CB units, microphones, musical instruments, etc.

Part Number	Retracted Length	No. Cond.	AWG Size & Stranding	Volt Rating	AMP Rating	Coil O.D.	Cord O.D.
CRV-1-2	2	2	23-21/36	120	1	3/4"	.200"
CRV-1-4	4	2	23-21/36	120	1	3/4"	.200"
CRV-2-2	2	3	23-21/36	120	1	3/4"	.210"
CRV-2-4	4	3	23-21/36	120	1	3/4"	.210"
CRV-3-2	2	4	23-21/36	120	1	13/16"	.240"
CRV-3-4	4	4	23-21/36	120	1	13/16"	.240"
CRV-4-2	2	5	23-21/36	120	1	1"	.285"
CRV-4-4	4	5	23-21/36	120	1	1"	.285"
CRV-5-2	2	6	23-21/36	120	1	1 1/8"	.305"
CRV-5-4	4	6	23-21/36	120	1	1 1/8"	.305"
CRV-6-2	2	7	23-21/36	120	1	1 1/4"	.320"
CRV-6-4	4	7	23-21/36	120	1	1 1/4"	.320"

Shielded Single and Multi Conductor Communication Coil Cord - Conductor: Tinned Copper. Jacket: Long Life Plastic, Very Flexible. Nominal Conductor Resistance: .022 ohms per linear foot, 185 ohms per retracted ft. Specifications: 2ft retracted extends to 12ft. 4ft retracted extends to 25ft. For use in communications equipment, mobile units, headsets, CB units, microphones, musical instruments, etc.

Part Number	Retracted Length	No. Cond.	AWG Size & Stranding	Number of Conductors	Coil O.D.	Cord O.D.
CRS-1-2	2	1	24-41/40	1 cond	5/8"	.160"
CRS-1-4	4	1	24-41/40	1 cond	5/8"	.160"
CRS-2-2	2	2	23-21/36	2 cond	7/8"	.225"
CRS-2-4	4	2	23-21/36	2 cond	7/8"	.225"
CRS-3-2	2	2	23-21/36	1 cond	7/8"	.240"
CRS-3-4	4	2	23-21/36	1 cond	7/8"	.240"
CRS-4-2	2	4	23-21/36	1 pair	1"	.270"
CRS-4-4	4	4	23-21/36	1 pair	1"	.270"

Miniature Coil Cord - Voltage Rating: 100V. Jacket: Long Life Plastic, Very Flexible. Current Carrying Capacity: 1…2 AMP. Specifications: 2ft retracted extends to 10ft. 6" Straight ends. Used for low voltage applications where miniaturization is required.

Part Number	No. Cond.	Cond. Size & Stranding	Coil O.D.	Cord O.D.
CRM-2	2	28-19/40	1/2"	.135"
CRM-4	4	28-19/40	1/2"	.150"

SPIRAL WRAP TUBING POLYETHYLENE, FLAME RESISTANT POLYETHYLENE, UV RESISTANT POLYETHYLENE, NYLON, TEFLON
Applicable Specifications: Polyethylene: Federal Spec. LP 390 MIL-I-631D, MIL-P-26692. Nylon: MIL-I-22096 Federal Spec. LP 410A. Teflon: MIL-I-22129B, AMS 3653C, AMS 3651B, AMS 3655.
Operating Temperature: Polyethylene: -20°C to +80°C. Nylon: -40°C to +120°C. Flame Resistant Polyethylene: -20°C to +80°C. Teflon: -70°C to +250°C. Ultraviolet Resistant Polyethylene: -20°C to +80°C.

IWC Part Number	Material	Nom. O.D. Inches	Nom. Thickness Inches	Pitch Inches	Max. Diam. Inner Wire Bundle Inches
SW-1000 P		.125	.031	.188	1/2
SW-2000 P		.250	.046	.375	2
SW-3000 P	Polyethylene	.375	.052	.437	3
SW-4000 P		.500	.062	.562	4
SW-5000 P		.750	.065	.750	5
SW-6000 P		1.000	.095	1.000	6
SW-1000 FRP		.125	.031	.188	1/2
SW-1100 FRP	Flame	.250	.046	.375	2
SW-1200 FRP	Resistant	.375	.052	.437	3
SW-1300 FRP	Polyethylene	.500	.062	.562	4
SW-1400 FRP		.750	.065	.750	5
SW-2000 N		.125	.016	.188	1/2
SW-2100 N		.250	.025	.375	2
SW-2200 N	Nylon	.375	.035	.437	3
SW-2300 N		.500	.035	.500	4
SW-2400 N		.750	.032	.750	5
SW-2500 N		1.000	.032	.100	6
SW-3000 T		.125	.030	.188	1/2
SW-3100 T		.250	.030	.375	2
SW-3200 T	Teflon	.375	.030	.437	2-1/2
SW-3300 T		.500	.030	.500	3
SW-3400 T		.750	.032	.750	3-1/2
SW-3500 T		1.000	.040	1.000	4
SW-4000 UVR		.125	.030	.188	1/2
SW-4100 UVR	Ultra-	.250	.045	.375	2
SW-4200 UVR	Violet	.375	.050	.437	3
SW-4300 UVR	Resistant	.500	.060	.500	4
SW-4400 UVR	Polyethylene	.750	.065	.750	5
SW-4500 UVR		1.000	.095	1.000	6

HSA-105 UL & Mil-Spec Approved
Specifications: HSA-105 is a general purpose, non crosslinked, flexible, low cost, heat shrinkable PVC tubing. Temperature Rating: -10”C to 105”C

Part Number	Size	Min. Expansion (Inch)	Max Recovered (Inch)	Nominal Recovered Wall (Inch)
HSA-0046	3/64	.046	.023	.020
HSA-0063	1/16	.063	.031	.020
HSA-0093	3/32	.093	.046	.020
HSA-0125	1/8	.125	.062	.025
HSA-0187	3/16	.187	.093	.025
HSA-0250	1/4	.250	.125	.025
HSA-0375	3/8	.375	.187	.030
HSA-0500	1/2	.500	.250	.030
HSA-0750	3/4	.750	.375	.035
HSA-1000	1	1.000	.500	.040
HSA-1500	1-1/2	1.500	.750	.045
HSA-2000	2	2.000	1.000	.050

RNF-100 MIL-Spec Heat Shrinkable General Purpose Polyolefin. Specifications: RNF-100 is a flexible, radiation crosslinked, flame-retarded, heat shrinkable, military grade polyolefin tubing certified to the requirements of MIL-I-23053/5. RNF-100 is available in five standard colors and flame retarded per Class 1. Clear is also available per Class 2 of MIL-I-23053/5. Is rated for continuous operation from -55°C to 135°C, and up to 300°C for short durations. Colors: Black, White, Red, Blue and Yellow.

Part Number	Size	Min. Expansion (Inch)	Max Recovered (Inch)	Nominal Recovered Wall (Inch)
RNF-0046	3/64	.046	.023	.016
RNF-0063	1/16	.063	.031	.017
RNF-0093	3/32	.093	.046	.020
RNF-0125	1/8	.125	.062	.020
RNF-0187	3/16	.187	.093	.020
RNF-0250	1/4	.250	.125	.025
RNF-0375	3/8	.375	.187	.025
RNF-0500	1/2	.500	.250	.025
RNF-0750	3/4	.750	.375	.030
RNF-1000	1	1.000	.500	.035
RNF-1500	1-1/2	1.500	.750	.040
RNF-2000	2	2.000	1.000	.045
RNF-3000	3	3.000	1.500	.050
RNF-4000	4	4.000	2.000	.055

NT-120 Heat Shrinkable MIL-SPEC Abrasion Resistant Neoprene
Specifications: NT-120 is a highly flexible, flame retardant, chlorinated elastomer. NT-120 is covered by a variety of military and industrial specifications.Temperature Rating: -70”C to 120”C

Part Number	Size	Min. Expansion (Inch)	Max Recovered (Inch)	Nominal Recovered Wall (Inch)
NTT-0125	1/8	.125	.062	.027
NTT-0187	3/16	.187	.093	.033
NTT-0250	1/4	.250	.125	.035
NTT-0375	3/8	.375	.187	.040
NTT-0580	1/2	.500	.250	.048
NTT-0625	5/8	.625	.312	.050
NTT-0750	3/4	.750	.375	.057
NTT-0875	7/8	.875	.500	.065
NTT-1000	1	1.000	.500	.070
NTT-1250	1-1/4	1.250	.612	.087
NTT-1500	1-1/2	1.500	.750	.095
NTT-1750	1-3/4	1.750	.875	.107
NTT-2000	2	2.000	1.000	.110

DWP-125 UL & MIL-SPEC Approved, Dual Wall Encapsulating, Adhesive Polyolefin
Specifications: DWP-125 is a semi-rigid, radiation crosslinked, heat shrinkable, dual-wall, polyolefin material. As DWP-125 shrinks, the inner adhesive liner melts and flows to seal and encapsulate components or splices contained within. Temperature Rating: 125”C

Part Number	Size	Min. Expansion (Inch)	Max Recovered (Inch)	Nominal Recovered Wall (Inch)
DWP-0125	1/8	.125	.023	.038
DWP-0187	3/16	.187	.060	.043
DWP-0250	1/4	.250	.080	.047
DWP-0375	3/8	.375	.120	.050
DWP-0500	1/2	.500	.157	.055
DWP-0750	3/4	.750	.230	.065
DWP-1000	1	1.000	.320	.075

PVC 105 All Purpose Tubing, UL & CSA Approved MIL-1-631D
Product Features: All purpose extruded plastic insulation. Superior thermal, mechanical and electrical properties. Flexible, resistant to heat, oil, abrasion, self extinguishing, meets UL VW-1 flame test, high dielectric strength, easy to handle.Temperature Rating: -20"C - 105"C

Part Number	Size AWG/Ins.	Nominal Inside Dia. Inches	Nominal Wall Inches
PVC-0022	24	.022	.013
PVC-0027	22	.027	.012
PVC-0034	20	.034	.016
PVC-0038	19	.038	.016
PVC-0042	18	.042	.016
PVC-0047	17	.047	.016
PVC-0053	16	.053	.016
PVC-0059	15	.059	.016
PVC-0066	14	.066	.016
PVC-0076	13	.076	.016
PVC-0085	12	.085	.016
PVC-0095	11	.095	.016
PVC-0106	10	.106	.016
PVC-0118	9	.118	.020
PVC-0133	8	.133	.020
PVC-0148	7	.148	.020
PVC-0166	6	.166	.020
PVC-0186	5	.186	.020
PVC-0208	4	.208	.020
PVC-0234	3	.234	.020
PVC-0263	2	.263	.020
PVC-0294	1	.294	.020
PVC-0330	0	.330	.020
PVC-0312	5/16	.312	.025
PVC-0375	3/8	.375	.025
PVC-0438	7/16	.438	.025
PVC-0500	1/2	.500	.030
PVC-0562	9/16	.562	.030
PVC-0625	5/8	.625	.035
PVC-0750	3/4	.750	.035
PVC-0875	7/8	.875	.035
PVC-1000	1	1.000	.035
PVC-1125	1-1/8	1.125	.040
PVC-1250	1-1/4	1.250	.040
PVC-1375	1-3/8	1.375	.045
PVC-1500	1-1/2	1.500	.055
PVC-1750	1-3/4	1.750	.055
PVC-2000	2	2.000	.060
PVC-2250	2-1/4	2.250	.065
PVC-2500	2-1/2	2.500	.070

Teflon Tubing - TFS Standard Wall, TFS Fractional Wall, TFT Thin Wall
Product Features: Superior dielectric strength at high frequencies. Excellent heat and chemical resistance. Temperature Rating: -65"C - 260"C. Specifications: TFS, T: Mil-1-22129, AMS 3653. TFT: Mil-1-22129, AMS 3655 Physical Properties: Tensile Strength: 7,500 PSI nominal (528 kg/cm^2). Elongation: 500%. Specific Gravity: 1:7. Chemical Properties: Corrosive Effect: Non-corrosive. Flammability: Self-extinguishing, does not support combustion. Fungus Resistance: Does not support growth. Water absorption: 0%.

Part Number TFT	Part Number TFS	AWG Size	Nominal Inside Dia. Inches	TFT Nominal Wall Inches	TFS Nominal Wall Inches
TFT-0012	N/A	30	.012	.009	-
TFT-0015	N/A	28	.015	.009	-
TFT-0018	N/A	26	.018	.010	-
TFT-0022	TFS-0022	24	.022	.010	.012
TFT-0027	TFS-0027	22	.027	.010	.012
TFT-0034	TFS-0034	20	.034	.012	.016
TFT-0038	TFS-0038	19	.038	.012	.016
TFT-0042	TFS-0042	18	.042	.012	.016
TFT-0047	TFS-0047	17	.047	.012	.016
TFT-0053	TFS-0053	16	.053	.012	.016
TFT-0059	TFS-0059	15	.059	.012	.016
TFT-0066	TFS-0066	14	.066	.012	.016
TFT-0076	TFS-0076	13	.076	.012	.016
TFT-0085	TFS-0085	12	.085	.012	.016
TFT-0095	TFS-0095	11	.095	.012	.016
TFT-0106	TFS-0106	10	.106	.012	.016
TFT-0118	TFS-0118	9	.118	.015	.020
TFT-0133	TFS-0133	8	.133	.015	.020
TFT-0148	TFS-0148	7	.148	.015	.020
TFT-0166	TFS-0166	6	.166	.015	.020
TFT-0186	TFS-0186	5	.186	.015	.020
TFT-0208	TFS-0208	4	.208	.015	.020
TFT-0234	TFS-0234	3	.234	.015	.020
TFT-0263	TFS-0263	2	.263	.015	.020
TFT-0294	TFS-0294	1	.294	.015	.020
TFT-0330	TFS-0330	0	.330	.015	.020

TFS Fractional Sizes

Part Number	Size Inches	Nominal I.D. Inches	Nominal Wall Inches
TFS-0125	1/8	.125	.020
TFS-0192	3/16	.192	.020
TFS-0255	1/4	.255	.020
TFS-0321	5/16	.321	.020
TFS-0387	3/8	.387	.025
TFS-0451	7/16	.451	.025
TFS-0515	1/2	.515	.025
TFS-0643	5/8	.643	.025
TFS-0772	3/4	.772	.030
TFS-0902	7/8	.902	.035
TFS-1030	1	1.030	.035
TFS-1287	1-1/4	1.287	.040
TFS-1550	1-1/2	1.550	.040

TINNED COPPER BUS BAR MIL-W-3861, QQ-W-343, TYPE S - ASTM-B-33

Description: Pure electrolytic soft drawn, solid, copper properly annealed and tinned for quick soldering. Applications: Winding of coils. Antennas. Point to Point wiring. Bus-bar. Component Leads. Ground Wire.

IWC Part Number	Conductor Size		Nom. Circular Mil. Area		Nominal O.D.		LBS. / M'	
BWA-3001	BWA-2001	30 AWG 20 AWG	100.5	1022.0	.010	.033"	.30	3.10
BWA-2801	BWA-1801	28 AWG 18 AWG	159.8	1642.0	.013	.040	.48	4.92
BWA-2601	BWA-1601	26 AWG 16 AWG	254.1	2583.0	.016	.051	.77	7.81
BWA-2401	BWA-1401	24 AWG 14 AWG	404.0	4107.0	.020	.065	1.22	12.40
BWA-2201	BWA-1201	22 AWG 12 AWG	642.4	6530.0	.025	.082	1.94	19.80

Tinned Copper Flat Braid QQ-W-343D, Type S - ASTM-B-33

Description: Woven tinned copper braid rolled flat to specific width. Each strand meets requirements of Federal Specifications QQ-W-343D, Type S and ASTM-B-33.

Part Number	Nom. Flat Width (in/mm)	Nom. Thickness (in/mm)	^AWG Indiv Ends	^Carriers	^Total No. of Indiv Ends	Approx. AWG Equiv	Nom. Circular Mil Area	Current Cap Amps*
BFA-001	.025 - .63	.015 - .38	36	8	8	27	200	4
BFA-002	1/32 - .79	.020 - .50	36	16	16	24	400	6
BFA-003	3/64 - 1.19	.020 - .50	36	24	24	22	600	7
BFA-004	3/32 - 2.38	.020 - .50	36	16	48	19	1200	11
BFA-005	1/8 - 3.18	.020 - .50	36	24	72	18	1800	16
BFA-006	3/16 - 4.76	.020 - .50	36	24	120	15	3000	25
BFA-007	1/4 - 6.35	.030 - .76	36	24	168	14	4200	32
BFA-008	3/8 - 9.53	.030 - .76	36	48	288	12	7200	46
BFA-009	1/2 - 12.70	.030 - .76	36	48	384	10	9600	53
BFA-010	5/8 - 15.90	.030 - .76	36	48	384	10	9600	53
BFA-011	3/4 - 19.10	.040 - 1.02	36	48	864	7	20800	85
BFA-012	1 - 25.40	.045 - 1.14	36	48	864	7	20800	85
BFA-013	1-3/8 - 34.90	.050 - 1.27	30	48	336	5	33700	100
BFA-014	1-1/2 - 38.10	.060 - 1.52	30	48	528	3	53064	150
BFA-015	1-3/4 - 44.50	.080 - 2.03	30	48	1248	2/0	125424	280
BFA-016	2 - 50.80	.120 - 3.05	30	48	1536	3/0	154368	310
BFA-017	3 - 76.20	.200 - 5.08	30	48	2256	4/0	225000	390

*Values shown are for bare cable in free air at 30C (86F) and are intended as a reference guide only. Actual values will depend on permissible temperature rise, permissible voltage drop and other conditions of service. ^Braid Construction

Tinned Copper Tubular Braid QQ-B-575A

Description: Each strand soft drawn tinned copper wire meets Federal Specifications. QQ-W-343D types and ASTM-B-33. Shield Coverage is 95%+ when placed over mandrel of equivalent diameter to that of braid interior.

Part Number	Nom. ID Rounded (in/mm)	^AWG Indiv Ends	^Carriers	^Total No. of Indiv Ends	Approx. AWG Equiv	Nom. Circular Mil Area	Current Cap Amps*
BTA-001	1/32 - .79	36	24	24	22	600	7.0
BTA-002	1/16 - 1.59	36	24	48	19	1200	11.0
BTA-003	5/64 - 1.98	36	24	72	18	1800	16.0
BTA-004	7/64 - 2.78	36	24	96	16	2400	19.0
BTA-005	1/8 - 3.18	36	24	120	15	3000	25.0
BTA-006	5/32 - 3.97	36	24	240	12	6000	40.0
BTA-007	11/64 - 4.37	36	24	168	14	4200	32.0
BTA-008	13/64 - 5.16	34	24	192	11	7630	46.0
BTA-009	1/4 - 6.35	36	24	384	10	9600	53.0
BTA-010	9/32 - 7.14	30	24	120	9	12060	60.0
BTA-011	3/8 - 9.53	36	48	384	10	9600	53.0
BTA-012	7/16 - 11.11	30	24	240	6	24120	90.0
BTA-013	1/2 - 12.70	36	48	528	9	13200	62.0
BTA-014	9/16 - 14.29	30	48	480	3	48240	145.0
BTA-015	21/32 - 16.67	30	48	768	1	77180	190.0
BTA-016	25/32 - 19.84	36	48	864	7	21600	88.0
BTA-017	7/8 - 22.23	30	48	336	5	33700	100.0
BTA-018	1 - 25.40	30	48	384	4	38600	120.0
BTA-019	1-1/8 - 28.58	30	48	432	4	43330	130.0
BTA-020	1-1/4 - 31.75	30	48	480	3	48150	145.0
BTA-022	1-3/8 - 34.93	30	48	528	2	53000	150.0
BTA-023	1-1/2 - 38.10	30	48	576	2	57775	165.0

*Values shown are for bare cable in free air at 30C (86F) and are intended as a reference guide only. Actual values will depend on permissible temperature rise, permissible voltage drop and other conditions of service. ^Braid Construction

LACING TAPES & TWINE MEETING AND EXCEEDING MILITARY AND COMMERCIAL SPECIFICATIONS
Designed to Meet and Exceed MIL-T-713D, Type P, and MIL-T-43435 Types I, II, and IV, also AMS 3815, AMS 3816, AMS 3817.

FINISHES AND COATINGS:
W-WAX, MIL SPEC B-
A microcrystalline fungicidal wax which exceeds military specifications, provides excellent knot retention and is suitable for either lacing or spot ties.
G-SYNTHETIC RUBBER, MIL SPEC C-
A special continuous coating of fungicidal synthetic elastomer (rubber) which exceeds Mil Spec requirements, ties easily and exhibits outstanding knot holding characteristics.
A-SYNTHETIC RESIN, MIL SPEC E-
A synthetic rubber-like resin formulated with fungicidal ingredients. Handling characteristics are excellent, knot retention is outstanding; meets or exceeds Mil Spec requirements.

Operational Temperatures Ranges: -67°F to +250°F on all items

Nylon Lacing Tape MIL-T-43435 Type I
Description: Flat braid high-tenacity nylon yarn impregnated with microcystalline fungicidal wax or impregnations to meet military specifications.

Part Number	Mil Spec Size	Test Tensile Strength	Width	Color	Finish	Mil Spec Finish
LT1-3EW	3	50 lbs.	.090	Natural	A	E
LT1-3BE	3	50 lbs.	.090	Black	A	E
LT1-4WB	4	25 lbs.	.062	Natural	W	B
LT1-4BB	4	25 lbs.	.062	Black	W	B
LT1-3WB	3	50 lbs.	.090	Natural	W	B
LT1-3BB	3	50 lbs.	.090	Black	W	B
LT1-3WC	3	50 lbs.	.090	Natural	G	C
LT1-3CB	3	50 lbs.	.090	Black	G	C

Polyester Lacing Tape MIL-T-43435 Type II
Description: Flat braided polyester yarn impregnated with special finishes to military specifications.

Part Number	Mil Spec Size	Test Tensile Strength	Width	Color	Finish	Mil Spec Finish
LT2-3EW	3	50 lbs.	.090	Natural	A	E
LT2-3BE	3	50 lbs.	.090	Black	A	E
LT2-3WB	3	50 lbs.	.090	Natural	W	B
LT2-3BB	3	50 lbs.	.090	Black	W	B

Nylon Lacing Twine Tape MIL-T-713D Type P
Description: Round twisted nylon fiber impregnated with microcrystalline fungicidal wax.

Part Number	Mil Spec Class	Test Tensile Strength	Nom. Diam.	Put-Up 1lb Spool (length)	Color	Finish	Mil Spec Finish
LTP-1BW	1	70 lbs.	.039	550 yds.	Natural	W	B
LTP-1BB	1	70 lbs.	.039	550 yds.	Black	W	B
LTP-2WB	2	48 lbs.	.029	750 yds.	Natural	W	B
LTP-2BB	2	48 lbs.	.029	750 yds.	Black	W	B
LTP-3WB	3	32 lbs.	.025	1100 yds.	Natural	W	B
LTP-3BB	3	32 lbs.	.025	1100 yds.	Black	W	B

Teflon Coated Fiberglass Lacing Tape MIL-T-43435 Type IV
Description: Individual glass fibers, uniformly coated with Tetroflurocarbon (Teflon) and braided into a flat tape. This construction is ideal for high temperature applications and resists most fuels, fluids and chemicals. Will not outgas under critical vacuum conditions.

Part Number	Mil Spec Size	Tensile Strength	Inches + -10%	Inches + - .003	Color	Finish	Mil Spec Finish
LT4-3CW	3	75	.090	.016	Natural (White)	G	C
LT4-4CW	4	50	.062	.016	Natural (White)	G	C

COLOR COMBINATIONS
SUITABILITY OF
Stripe over Base

Base Colors of Insulation	Black	Brown	Red	Orange	Yellow	Green	Blue	Violet	Grey	White	
Black	No	3	2	2	1	2	2	3	3	1	
Brown	3	No	1	2	1	2	1	2	3	1	
Red	3	3	No	2	1	1	1	3	3	1	
Orange	1	2	1	No	3	1	1	2	3	1	
Yellow	1	1	1	2	No	1	1	1	3	2	
Green	1	2	1	1	1	No	2	2	3	1	
Blue	2	3	1	1	1	3	No	3	3	1	
Violet	3	3	3	1	1	3	3	No	3	1	
Grey	1	2	1	1	1	2	2	3	No	2	
White	1	1	1	1	1	1	1	1	3	No	

1 = Good 2 = Fair 3 = Poor
The above chart is recommended as a guide when purchasing striped wire

Color Code Chart No. 1

1. Black
2. White
3. Red
4. Green
5. Brown
6. Blue
7. Orange
8. Yellow
9. Purple
10. Slate
11. Pink
12. Tan
13. Red/Green
14. Red/Yellow
15. Red/Black
16. White/Black
17. White/Red
18. White/Green
19. White/Yellow
20. White/Blue
21. White/Brown
22. White/Orange
23. White/Gray
24. White/Violet
25. White/Black/Red
26. White/Black/Green
27. White/Black/Yellow
28. White/Black/Blue
29. White/Black/Brown
30. White/Black/Orange

Color Code Chart No. 2 (ICEA)

1. Black
2. White
3. Red
4. Green
5. Orange
6. Blue
7. White/Black
8. Red/Black
9. Green/Black
10. Orange/Black
11. Blue/Black
12. Black/White
13. Red/White
14. Green/White
15. Blue/White
16. Black/Red
17. White/Red
18. Orange/Red
19. Blue/Red
20. Red/Green
21. Orange/Green
22. Black/White/Red
23. White/Black/Red
24. Red/Black/White
25. Green/Black/White
26. Orange/Black/White
27. Blue/Black/White
28. Black/Red/Green
29. White/Red/Green
30. Red/Black/Green
31. Green/Black/Orange
32. Orange/Black/Green
33. Blue/White/Orange
34. Black/White/Orange
35. White/Red/Blue
36. Orange/White/Blue
37. White/Red/Blue
38. Black/White/Green
39. White/Black/Green
40. Red/White/Green
41. Green/White/Blue
42. Orange/Red/Green
43. Blue/Red/Green
44. Black/White/Blue
45. White/Black/Blue
46. Red/White/Blue
47. Green/Orange/Red
48. Orange/Red/Blue
49. Blue/Red/Orange
50. Black/Orange/Red
51. White/Black/Orange
52. Red/Orange/Black
53. Green/Red/Blue
54. Orange/Black/Blue
55. Blue/Black/Orange
56. Black/Orange/Green
57. White/Orange/Green
58. Red/Orange/Green
59. Green/Black/Blue
60. Orange/Green/Blue

No. 3 NEC Color Code For Control Cables

1. Black
2. White
3. Red
4. Green
5. Orange
6. Blue
7. Yellow
8. Brown
9. Slate
10. Purple
11. Black/White
12. Red/White
13. Orange/White
14. Blue/White
15. Yellow/White
16. Brown/White
17. Slate/White
18. Purple/White
19. Red/Black
20. Orange/Black
21. Blue/Black
22. Yellow/Black
23. Brown/Black
24. Slate/Black
25. Purple/Black
26. Black/Red
27. Blue/Red
28. Yellow/Red
29. Brown/Red
30. Slate/Red
31. Purple/Red
32. Black/Orange
33. Blue/Orange
34. Yellow/Orange
35. Brown/Orange
36. Slate/Orange
37. Purple/Orange
38. Black/Blue
39. Red/Blue
40. Orange/Blue

No. 4 Color Code Multi-Conductor

1. Black
2. Brown
3. Red
4. Orange
5. Yellow
6. Green
7. Blue
8. Violet
9. Gray
10. White
11. White/Black
12. White/Brown
13. White/Red
14. White/Orange
15. White/Yellow
16. White/Green
17. White/Blue
18. White/Violet
19. White/Gray
20. White/Black/Brown
21. White/Black/Red
22. White/Black/Orange
23. White/Black/Yellow
24. White/Black/Green
25. White/Black/Blue
26. White/Black/Violet
27. White/Black/Gray
28. White/Brown/Red
29. White/Brown/Orange
30. White/Brown/Yellow
31. White/Brown/Green
32. White/Brown/Blue
33. White/Brown/Violet
34. White/Brown/Gray
35. White/Red/Orange
36. White/Red/Yellow
37. White/Red/Green
38. White/Red/Blue
39. White/Red/Violet
40. White/Red/Gray
41. White/Orange/Yellow
42. White/Orange/Green
43. White/Orange/Blue
44. White/Orange/Violet
45. White/Orange/Gray
46. White/Yellow/Green
47. White/Yellow/Blue
48. White/Yellow/Violet
49. White/Yellow/Gray
50. White/Green/Blue
51. White/Green/Violet
52. White/Green/Gray
53. White/Blue/Violet
54. White/Blue/Gray
55. White/Violet/Gray
56. White/Black/Brown/Red
57. White/Black/Brown/Orange
58. White/Black/Brown/Yellow
59. White/Black/Brown/Green
60. White/Black/Brown/Blue
61. White/Black/Brown/Violet
62. White/Black/Brown/Gray
63. White/Black/Red/Yellow
64. White/Black/Red/Green
65. White/Black/Red/Blue
66. White/Black/Red/Violet
67. White/Black/Red/Gray
68. White/Black/Orange/Yellow
69. White/Black/Orange/Green
70. White/Black/Orange/Blue
71. White/Black/Orange/Violet
72. White/Black/Orange/Gray
73. White/Black/Yellow/Green
74. White/Black/Yellow/Blue
75. White/Black/Yellow/Violet
76. White/Black/Yellow/Gray
77. White/Black/Green/Blue
78. White/Black/Green/Violet
79. White/Black/Green/Gray
80. White/Black/Blue/Violet
81. White/Black/Blue/Gray
82. White/Black/Violet/Gray
83. White/Brown/Red/Orange
84. White/Brown/Red/Yellow
85. White/Brown/Red/Green
86. White/Brown/Red/Blue
87. White/Brown/Red/Violet
88. White/Brown/Red/Gray
89. White/Brown/Orange/Yellow
90. White/Brown/Orange/Green
91. White/Brown/Orange/Blue
92. White/Brown/Orange/Violet
93. White/Brown/Orange/Gray
94. White/Brown/Yellow/Green
95. White/Brown/Yellow/Blue
96. White/Brown/Yellow/Violet
97. White/Brown/Yellow/Gray
98. White/Brown/Green/Blue
99. White/Brown/Green/Violet
100. White/Brown/Green/Gray

No. 5 Color Coding of Pairs

1. Black paired with Red
2. Black paired with White
3. Black paired with Green
4. Black paired with Blue
5. Black paired with Yellow
6. Black paired with Brown
7. Black paired with Orange
8. Red paired with White
9. Red paired with Green
10. Red paired with Blue
11. Red paired with Yellow
12. Red paired with Brown
13. Red paired with Orange
14. Green paired with White
15. Green paired with Blue
16. Green paired with Yellow
17. Green paired with Brown
18. Green paired with Orange
19. White paired with Blue
20. White paired with Yellow
21. White paired with Brown
22. White paired with Orange
23. Blue paired with Yellow
24. Blue paired with Brown
25. Blue paired with Orange
26. Brown paired with Yellow
27. Brown paired with Orange
28. Purple paired with Red
29. Purple paired with White
30. Purple paired with Green
31. Purple paired with Blue
32. Purple paired with Brown
33. Purple paired with Yellow
34. Purple paired with Orange
35. Purple paired with Slate
36. Purple paired with Black
37. Slate paired with Red
38. Slate paired with White
39. Slate paired with Green
40. Slate paired with Blue
41. Slate paired with Brown
42. Slate paired with Yellow
43. Slate paired with Orange
44. Slate paired with Black
45. White/Black paired with Red
46. White/Black paired with Green
47. White/Black paired with Blue
48. White/Black paired with Brown
49. White/Black paired with Yellow
50. White/Black paired with Orange
51. White/Black paired with Purple

Stranded Tinned Copper Wire Table - American Wire Gauge (B&S)

AWG Size	Stranding	Nom. OD Strand.	Approx. OD	Circular Mil Area	Wt. Per. 1000'	Ohms Per 1000'
36	7/44	.0020	.0060	28.00	.085	371.00
34	7/42	.0025	.0075	43.75	.132	237.00
32	7/40	.0031	.0080	67.27	.203	164.00
32	19/44	.0020	.0090	76.00	.230	136.40
30	7/38	.0040	.0120	112.00	.339	103.20
30	19/42	.0025	.0120	118.75	.359	87.30
28	7/36	.0050	.0150	141.75	.529	64.90
28	19/40	.0031	.0160	182.59	.553	56.70
27	7/35	.0056	.0180	219.52	.664	51.47
26	7/34	.0063	.0190	277.83	.841	37.30
26	10/36	.0050	.0210	250.00	.757	41.48
26	19/38	.0040	.0200	304.00	.920	34.43
24	7/32	.0080	.0240	448.00	1.356	23.30
24	10/34	.0063	.0230	396.00	1.201	26.09
24	19/36	.0050	.0240	475.00	1.430	21.08
24	41/40	.0031	.0230	384.40	1.160	25.59
22	7/30	.0100	.0300	700.00	2.120	14.74
22	19/34	.0063	.0310	754.11	2.280	13.73
22	26/36	.0050	.0300	650.00	1.970	15.94
20	10/30	.0100	.0350	1000.00	3.025	10.32
20	19/32	.0080	.0370	1216.00	3.680	8.63
20	26/34	.0063	.0360	1031.94	3.120	10.05
20	41/36	.0050	.0360	1025.00	3.100	10.02
18	7/26	.0159	.0480	1769.60	5.360	5.86
18	16/30	.0100	.0470	1600.00	4.840	6.48
18	19/30	.0100	.0490	1900.00	5.750	5.46
18	41/34	.0063	.0470	1627.29	4.920	6.37
18	65/36	.0050	.0470	1625.00	4.910	6.39
16	7/24	.0201	.0600	2828.00	8.560	3.67
16	19/29	.0113	.0580	2426.30	7.350	4.27
16	26/30	.0100	.0590	2600.00	7.870	4.00
16	65/34	.0063	.0590	2579.85	7.810	4.02
16	105/36	.0050	.0590	2625.00	7.950	3.99
14	7/22	.0253	.0730	4480.00	13.560	2.31
14	19/27	.0142	.0730	3830.4	11.590	2.70
14	41/30	.0100	.0730	4100.0	12.400	2.53
14	105/34	.0063	.0730	4167.5	12.610	2.49
12	7/20	.0320	.0960	7168.0	21.690	1.45
12	19/25	.0179	.0930	6087.6	18.430	1.70
12	65/30	.0100	.0950	6500.0	19.660	1.75
12	165/34	.0063	.0950	6548.9	19.820	1.58
10	37/26	.0159	.115	9353.6	28.31	1.110
10	49/27	.0142	.116	9878.4	29.89	1.090
10	105/30	.0100	.116	10,530.0	31.76	.980
8	49/25	.0179	.147	15,699.6	47.53	.670
8	133/29	.0113	.147	16,984.1	51.42	.610
8	655/36	.0050	.147	16,625.0	49.58	.620
6	133/27	.0142	.184	26,812.8	81.14	.470
6	259/30	.0100	.184	25,900.0	78.35	.400
6	1050/36	.0050	.184	26,250.0	79.47	.386
4	133/25	.0179	.232	42,613.0	129.01	.243
4	259/27	.0143	.232	52,214.4	158.02	.200
4	1666/36	.0050	.232	41,650.0	126.10	.250
2	133/23	.0226	.292	67,936.4	205.62	.152
2	259/26	.0159	.292	65,475.2	198.14	.160
2	665/30	.0100	.292	66,500.0	201.16	.157
2	2646/36	.0050	.292	66,150.0	200.28	.157
1	133/22	.0253	.328	85,133.3	257.60	.121
1	259/25	.0179	.328	82,983.6	251.20	.125
1	817/30	.0100	.328	81,700.0	247.10	.127
1	2109/34	.0063	.328	83,706.2	253.29	.124
0	133/21	.0285	.368	108,035.9	327.05	.096
0	259/24	.0201	.368	104,636.0	316.76	.099
0	1045/30	.0100	.368	104,500.0	316.11	.099
0	2660/34	.0063	.368	105,575.4	319.47	.098
0	4214/36	.0050	.368	105,350.0	318.96	.098
00	133/20	.0320	.414	136,192.0	412.17	.077
00	259/23	.0226	.414	132,297.2	400.41	.077
00	1330/30	.0100	.414	133,000.0	402.33	.077
00	3325/34	.0063	.414	131,969.2	399.33	.077
00	5292/36	.0050	.414	132,300.0	400.55	.077
000	259/22	.0253	.464	163,195.9	501.70	.062
000	427/24	.0201	.464	172,508.0	522.20	.059
000	1661/30	.0100	.464	166,100.0	502.45	.062
000	4256/34	.0063	.464	168,920.6	511.15	.061
000	6713/36	.0050	.464	167,825.0	508.11	.061
0000	259/21	.0285	.522	210,385.7	638.88	.049
0000	427/23	.0226	.522	218,111.6	660.01	.047
0000	2104/30	.0100	.522	210,400.0	636.46	.049
0000	5320/34	.0063	.522	211,150.8	638.89	.049
0000	8512/36	.0050	.522	212,800.0	644.27	.049

All Resistance Measurements are at 68°F or 20°C

Temperature Conversion Table

1/64 = .015625	3/16 = .1875	23/64 = .359375	17/32 = .53125	45/64 = .703125	7/8 = .875
1/32 = .03125	13/64 = .203125	3/8 = .375	35/64 = .546875	23/32 = .71875	57/64 = .890625
3/64 = .046875	7/32 = .21875	25/64 = .390625	9/16 = .5625	47/64 = .734375	29/32 = .90625
1/16 = .0625	15/64 = .234375	13/32 = .40625	37/64 = .578125	3/4 = .75	59/64 = .921875
5/64 = .078125	1/4 = .25	27/64 = .421875	19/32 = .59375	49/64 = .765625	15/16 = .9375
3/32 = .09375	17/64 = .265625	7/16 = .4375	39/64 = .609375	25/32 = .78125	61/64 = .953125
7/64 = .109375	9/32 = .28125	29/64 = .453125	5/8 = .625	51/64 = .796875	31/32 = .96875
1/8 = .140125	19/34 = .296875	15/32 = .46875	41/64 = .640625	13/16 = .8125	63/64 = .984375
9/64 = .140625	5/16 = .3125	31/64 = .484375	21/32 = .65625	53/64 = .828125	1 = 1.
5/32 = .15625	21/64 = .328125	1/2 = .5	43/64 = .671875	27/32 = .84375	
11/64 = .171875	11/32 = .34375	33/64 = .515625	11/16 = .6875	55/64 = .859375	

Decimal Equivalents Table

°C	F°
- 100	- 148
- 95	- 139
- 90	- 130
- 85	- 121
- 80	- 112
- 75	- 103
- 70	- 94
- 65	- 85
- 60	- 76
- 55	- 67
- 50	- 58
- 45	- 49
- 40	- 40
- 35	- 31
- 30	- 22
- 25	- 13

°C	F°
- 20	- 4
- 15	+ 5
- 10	+ 14
- 5	+ 23
0 *	+ 32 *
+ 5	+ 41
+ 10	+ 50
+ 15	+ 59
+ 20	+ 68
+ 25	+ 77
+ 30	+ 86
+ 35	+ 95
+ 40	+ 104
+ 45	+ 113
+ 50	+ 122
+ 55	+ 131

°C	F°
+ 60	+ 140
+ 65	+ 149
+ 70	+ 158
+ 75	+ 167
+ 80	+ 176
+ 85	+ 185
+ 90	+ 194
+ 95	+ 203
+ 100 †	+ 212 †
+ 105	+ 221
+ 110	+ 230
+ 115	+ 239
+ 120	+ 248
+ 125	+ 257
+ 130	+ 266
+ 135	+ 275

°C	F°
+ 140	+ 284
+ 145	+ 293
+ 145	+ 302
+ 150	+ 311
+ 155	+ 320
+ 160	+ 329
+ 165	+ 338
+ 170	+ 347
+ 175	+ 356
+ 180	+ 365
+ 185	+ 374
+ 190	+ 383
+ 195	+ 392
+ 200	+ 401
+ 205	+ 410
+ 210	+ 419

°C	F°
+ 220	+ 428
+ 225	+ 437
+ 230	+ 446
+ 235	+ 455
+ 240	+ 464
+ 245	+ 473
+ 250	+ 482
+ 255	+ 491
+ 260	+ 500
+ 265	+ 509
+ 270	+ 518
+ 275	+ 527
+ 280	+ 536
+ 285	+ 545
+ 290	+ 554
+ 295	+ 563

°C	F°
+ 300	+ 572
+ 305	+ 581
+ 310	+ 590
+ 315	+ 599
+ 320	+ 608
+ 325	+ 617
+ 330	+ 626
+ 335	+ 635
+ 340	+ 644
+ 345	+ 653
+ 350	+ 662
+ 355	+ 671
+ 360	+ 680
+ 365	+ 689
+ 370	+ 698
+ 375	+ 707

°C	F°
+ 380	+ 716
+ 385	+ 725
+ 390	+ 734
+ 395	+ 743
+ 400	+ 752
+ 405	+ 761
+ 410	+ 770
+ 415	+ 779
+ 420	+ 788
+ 425	+ 797
+ 430	+ 806
+ 435	+ 815
+ 440	+ 824
+ 445	+ 833
+ 450	+ 842
+ 455	+ 851

°C	F°
+ 460	+ 860
+ 465	+ 869
+ 470	+ 878
+ 475	+ 887
+ 480	+ 896
+ 485	+ 905
+ 490	+ 914
+ 495	+ 923
+ 500	+ 932
+ 505	+ 941
+ 510	+ 950
+ 515	+ 959
+ 520	+ 968
+ 525	+ 977
+ 530	+ 986
+ 535	+ 995

* Freezing Point Boiling Point Conversion Method: °F = 9/5°C + 32°; °C = 5/9°F - 32°

QUICK REFERENCE GUIDE TO HEAT-SHRINKABLE PRODUCTS

MATERIAL TYPE	PRODUCT GROUP	GENERAL DESCRIPTION / APPLICATION	OPERATING TEMP.	STANDARD EXPANDED SIZES	STANDARD COLORS	MIL-I 23053	MIL-R 46846	AMS	NASA MSFC	UL/CSA
POLYOLEFINS	GPO-135 Class 1	GENERAL PURPOSE POLYOLEFIN is a military grade flame retarded tubing for use in marking, coding, identification of wires or for light duty harness, jackets.	-55°C +135°C	3/64, 1/16, 3/32, 1/8, 3/16, 1/4, 1/2, 3/4, 1-1/2, 2, 3, & 4	BLACK (BLK), WHITE (WHT), RED, BLUE (BLU), YELLOW (YLW)	/5 CLASS 1	TYPE V	3636	TYPE 1 CLASS 1	
	GPO-135 Class 2	GENERAL PURPOSE POLYOLEFIN is a military grade nonflame retarded tubing used for see through inspection because it is a high clarity clear material.	-55°C +135°C	(same as above)	CLEAR (CLR)	/5 CLASS 2	TYPE V	3637	TYPE 2 CLASS 2	
	CFR-125	UL/CSA recognized flexible polyolefin.	-10°C +125°C	3/64, 1/16, 3/32, 1/8, 3/16, 1/4, 3/8, 1/2, 3/4 & 1	BLACK (BLK), WHITE (WHT), RED, BLUE (BLU), YELLOW (YLW)		TYPE V			CSA 125°C UL224 (VW-1)
	CFR-TW	UL RECOGNIZED THIN WALL POLYOLEFIN with ultra thin wall for rapid shrinking.	-10°C +105°C	1/16, 3/32, 1/8, 3/16, 1/4 & 3/8	BLACK (BLK)					UL224 (VW-1)
	CPGE-105	COMMERCIAL GRADE POLYOLEFIN, nonflame retarded, for high volume use where cost is a major consideration.	-55°C +105°C	3/64, 1/16, 3/32, 1/8, 3/16, 1/4, 3/8, 1/2, 3/4 & 1	BLACK (BLK), WHITE (WHT), CLEAR (CLR), + other colors.					
	DWP-125	DUAL WALL POLYOLEFIN for sealing or insulation of components; inner liner melts as outer wall shrinks.	-55°C +125°C	1/8, 3/16, 1/4, 3/8, 1/2, 3/4 & 1	BLACK (BLK) CLEAR (CLR)	/4 CLASS 1		3634		
	RTA-125	INNER ADHESIVE POLYOLEFIN used where adhesion not encapsulation, is desired for components.	-55°C +125°C	1/8, 3/16, 1/4, 3/8, 1/2, 3/4 & 1	BLACK (BLK)	/4 CLASS 2				
	GPR-135	GENERAL PURPOSE SEMI-RIGID POLYOLEFIN for strain relief applications.	-55°C +135°C	3/64, 1/16, 3/32, 1/8, 3/16, 1/4, 3/8 & 1/2	BLACK (BLK)	/6 CLASS 1		3638		UL224 125°C
	RTI-125	TERMINAL INSULATION POLYOLEFIN that comes in 1" lengths for post insulation of terminals, rings, lugs.	-10°C +125°C	.220 (#1), .300 (#2), .350 (#3) & .460 (#4)	BLACK (BLK)					UL224 125°C
VINYLS	HSR-105	POLYVINYL CHLORIDE radiation cross linked for extended temperaturesand nonmelting materials.	-15°C +105°C	3/64, 1/16, 3/32, 1/8, 3/16, 1/4, 1/2, 3/4, 1, 1-1/2 & 2	BLACK (BLK)					UL224 105°C (VW-1)
ELASTOMERS	NT-120	NEOPRENE a military grade tubing used for heavy duty, ground support wire harnesses, cables; flexible, abrasion and cut-through resistant.	-70°C +120°C	1/8, 3/16, 1/4, 3/8, 1/2, 3/4, 1, 1-1/4, 1-1/2, 1-3/4 & 2	BLACK (BLK)	/1 CLASS 1	TYPE 1 CLASS 1	3623	TYPE 2 CLASS 2	
FLUOROPOLYMERS	PVF-175	POLYVINYLIDENE FLOURIDE (KYNAR) used where a clear material is required in high-temperature applications; semi-rigid; flame retarded.	-55°C +175°C	3/64, 1/16, 3/32, 1/8, 3/16, 1/4, 3/8, 1/2, 3/4, 1 & 1-1/2	CLEAR (CLR)	/8		3632		
	FEP-200	FLUORINATED ETHYLENE PROPYLENE, used where teflon-like properties are required but high-shrink temperatures of teflon are undesirable.	-55°C +200°C	Consult Factory	CLEAR (CLR)	/11				
	TFE-250	POLYTETRAFLOUROETHYLENE (Teflon™) used where high temperatures, low coefficient of friction or inertness to chemicals is required; non-burning.	-65°C +250°C	Consult Factory	TRANSPARENT (TSP)	/12		TYPE 2 3586 TYPE 3 3585 TYPE 5 3584		

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- Commodity Cable
- CCT
- CommScope
- Continental Cordage
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- Harbour Industries
- Helistrand
- Hellermann Tyton
- Hilec
- ICM Corporation
- Ideal Industries
- Insultab
- Insulation Products
- International Wire
- James Monroe Wire & Cable
- Judd Wire
- Krone
- Lapp Group
- M.M. Newman
- Manhattan CDT
- Micro-Coax
- Nexans Wire & Cable
- Olflex/Lapp
- Parker-TexLoc
- PMC Corp
- Prestolite Wire
- Quabbin Wire & Cable
- Rockbestos/RSCC
- SAB North America
- Saylor Products
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