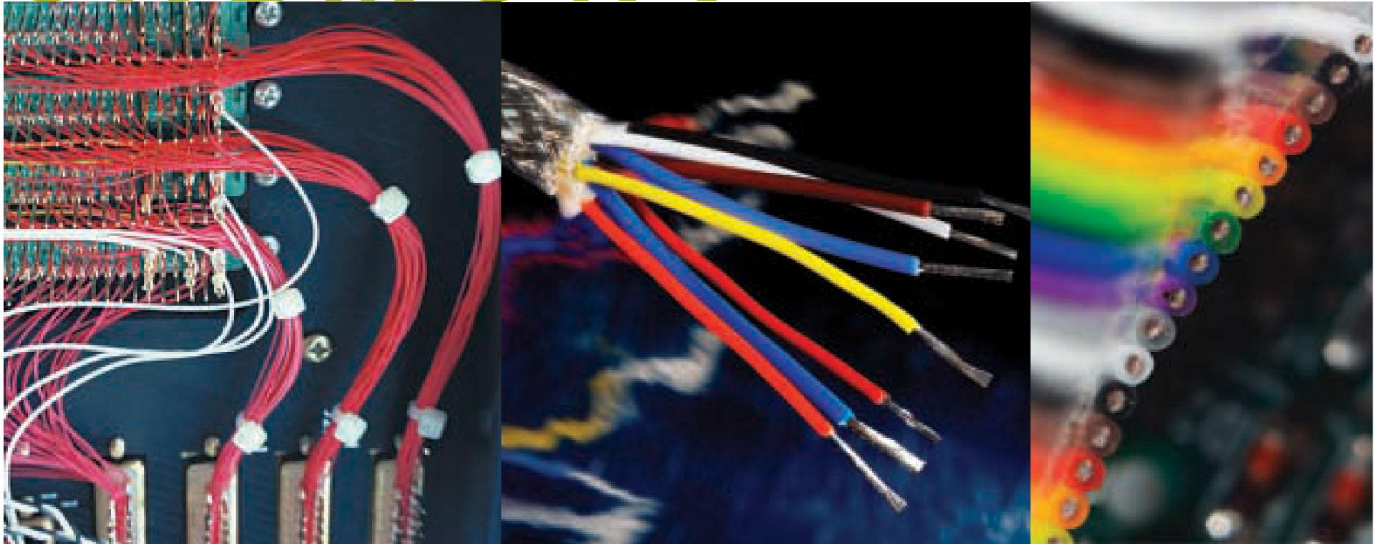




CALMONT
Wire & Cable

High Flex Products

CALMONT



WIRE AND CABLE

SuperFlex

FluoroFlex

SiliFlex

SiliFlex Ribbon Cable

Flat Braid



Distributor of **CALMONT** precision Wire & Cable.

Sales@Si-Tech.com.hk

How To Order Calmont High Flex Products

SAMPLE ORDERING NUMBER

Insulation/Jacketing	Wire Size	Number of Conductors	Insulation Color Code	Conductor	Shield Type
3006-023	-20	-2-	0/1	-BCA	-BBC
PVC/PVC SuperFlex	20 AWG	2	Black/Brown	Bare Copper Alloy 162	Bare Copper Braid Shield

CALMONT HIGH FLEX CABLE OPTIONS

Part #	Insulation/Jacketing	-A WIRE SIZE AWG	-N NUMBER OF CONDUCTORS	-C PRIMARY INSULATION COLORS	-CCC CONDUCTOR TYPE ABBREVIATION	DESCRIPTION	-S SHIELD STYLE
3006-023	PVC/PVC	20 AWG	Customer to specify.	Per MIL-STD-6	BC	Bare Copper	U = No Shield
3006-031	PVC/TPE	through			BCA	Bare Copper Alloy 162	BC
3006-051	PVC/PU	40 AWG		0 = Black	BCW	Bare CopperWeld	BCA
3006-024	FEP/FEP			1 = Brown	BPB	Bare Phosphor Bronze	Bronze
3006-029	FEP/SILICONE			2 = Red	CON	Constantan	BCW
3006-032	FEP/TPE			3 = Orange	HIP	High Permeable Iron	HIP
3006-052	FEP/PU			4 = Yellow	KN	Alumel	LOP
3006-028	SILICONE/SILICONE			5 = Green	KN	Alumel	LOP
3006-026	SILICONE/FEP			6 = Blue	KP	Chromel	NIC
3006-034	SILICONE/TPE			7 = Violet	LOP	Low Permeable Iron	NIC
				8 = Grey	NIC	Nickel	NPA
				9 = White	NPA	Nickel plated Alloy 135	NPC
					NPC	Nickel plated Copper	SCW
					SCW	Silver plated CopperWeld	SPA
					SPA	Silver plated alloy 135	SPC
					SPC	Silver plated Copper	SPCS95
					SPCS95	Silver plated Alloy CS-95	SS
					SS	Stainless Steel	TC
					TC	Tin plated Copper	TCA
					TCA	Tin plated Alloy 162	TCW
					TCW	Tin plated CopperWeld	
							(B) Braid Shield
							(S) Spiral Shield

SuperFlex Wire & Cable

SuperFlex Hookup and Multiconductor Cables

FEATURES:

- High dielectric strength
- High flexural fatigue life
- Low cost
- Bondable
- Resists deformation
- Resists abrasion
- Resists moisture

GENERAL DESCRIPTION

SuperFlex was pioneered and developed by Calmont for the exacting commercial and military markets. Specially compounded and plasticized polyvinyl chloride insulation applied over ultra fine stranded wire yields a finished wire with a longer flex life and a higher flexure index level than that attainable with ordinary PVC insulated wire.

APPLICATIONS

SuperFlex is an ideal choice for a variety of low temperature, high flex applications. SuperFlex is commonly used for disposable medical devices, robotics, sensors and assorted cost sensitive commercial applications.

MULTICONDUCTOR JACKET OPTIONS

• PVC • TPE • PU

General Specifications

ELECTRICAL PROPERTIES

D.C. Volume Resistivity (ohm – CM) 1×10^{12}

Dielectric Strength (VPM on .075 slab) 400

Insulation Resistance at 15.6 °C (MΩ 1000 FT) 1000

Dielectric Constant:

at 60 Hz 5.0 - 6.0

at 10^3 Hz 4.5 - 5.8

at 10^6 Hz 3.5 - 4.5

Dissipation Factor:

at 60 Hz .05 - .15

at 10^3 Hz .06 - .16

at 10^6 Hz .07 - .17

PHYSICAL PROPERTIES

Tensile Strength (PSI) 1500 - 2500

Elongation (%) 150 - 375

Specific Gravity 1.2 - 1.5

Shore Hardness (A Scale) 55 - 95

THERMAL PROPERTIES

Flammability Self Extinguishing

Operating Temperature (Useful life estimate: 20 yrs at 80 °C). -20 ° to 105 °C

(Optional Insulation available with operating temperature -40 to 105 °C).

Calmont SuperFlex Hookup Wire

Part Number	Bare Copper Conductor						Finished Wire			
	AWG SIZE	STRANDS (No. of Strands/ Strand Size)	Strand Diameter (inches)	Conductor Diameter (Nominal)	Conductor Area (CM) (Nominal)	Conductor Resistance (OHMS/1000' NOM)	Current Carrying Capacity @ 80 °C (Approximate)	Outside Diameter (± .003)	Weight (lbs./1000') approximate	Stiffness Comparison (pounds)
3006-023-20-1-C-CCC-S	20	105/40	.0031	.039	1038.30	10.00	4.00	.065	5.00	.2580
3006-023-22-1-C-CCC-S	22	65/40	.0031	.031	642.70	16.10	2.50	.054	3.30	.1900
3006-023-24-1-C-CCC-S	24	41/40	.0031	.023	405.40	25.60	1.60	.047	2.30	.0780
3006-023-26-1-C-CCC-S	26	66/44	.0020	.019	258.10	40.20	1.00	.042	1.60	.1360
3006-023-28-1-C-CCC-S	28	41/44	.0020	.015	160.30	64.70	.60	.038	1.20	.0224
3006-023-29-1-C-CCC-S	29	51/46	.0016	.014	125.50	82.70	.50	.030	.80	.0120
3006-023-30-1-C-CCC-S	30	41/46	.0016	.012	100.90	102.80	.40	.028	.67	.0084
3006-023-32-1-C-CCC-S	32	27/46	.0016	.009	66.41	156.20	.25	.026	.52	.0063
3006-023-34-1-C-CCC-S	34	40/50	.0010	.008	38.92	266.50	.16	.022	.35	.0051
3006-023-36-1-C-CCC-S	36	25/50	.0010	.006	24.32	426.40	.10	.020	.27	.0044
3006-023-38-1-C-CCC-S	38	16/50	.0010	.005	15.57	666.20	.06	.019	.22	.0039
3006-023-40-1-C-CCC-S	40	12/50	.0010	.003	11.67	888.30	.04	.018	.19	.0035

¹Contact Calmont for additional conductor options

SuperFlex Wire & Cable

PVC/TPE

PVC INSULATED, SHIELDED AND TPE JACKETED CABLES

PART NUMBER See How to Order Page for Information	AWG Size	Strands No./Size	Uninsulated Conductor Diameter	Insulated Conductor Diameter	Diameter Over Shield (Nominal)	Overall Diameter (Nominal)	Weight (lbs./M Ft.)
ONE CONDUCTOR							
3006-031-20-1-C-CCC-S	20	105/40	.039	.065	.079	.102	9.1
3006-031-22-1-C-CCC-S	22	65/40	.031	.054	.068	.094	7.0
3006-031-24-1-C-CCC-S	24	41/40	.023	.047	.061	.085	5.5
3006-031-26-1-C-CCC-S	26	66/44	.019	.042	.056	.076	4.4
3006-031-28-1-C-CCC-S	28	41/44	.015	.038	.052	.072	3.7
3006-031-29-1-C-CCC-S	29	51/46	.014	.030	.044	.064	2.9
3006-031-30-1-C-CCC-S	30	41/46	.012	.028	.042	.062	2.7
TWO CONDUCTOR							
3006-031-20-2-C-CCC-S	20	105/40	.039	.065	.137	.165	18.5
3006-031-22-2-C-CCC-S	22	65/40	.031	.054	.116	.150	13.6
3006-031-24-2-C-CCC-S	24	41/40	.023	.047	.103	.133	10.8
3006-031-26-2-C-CCC-S	26	66/44	.019	.042	.093	.123	8.8
3006-031-28-2-C-CCC-S	28	41/44	.015	.038	.086	.116	7.5
3006-031-29-2-C-CCC-S	29	51/46	.014	.030	.071	.099	5.6
3006-031-30-2-C-CCC-S	30	41/46	.012	.028	.067	.095	5.2
THREE CONDUCTOR							
3006-031-20-3-C-CCC-S	20	105/40	.039	.065	.154	.182	24.0
3006-031-22-3-C-CCC-S	22	65/40	.031	.054	.130	.165	17.8
3006-031-24-3-C-CCC-S	24	41/40	.023	.047	.115	.145	13.6
3006-031-26-3-C-CCC-S	26	66/44	.019	.042	.104	.134	11.2
3006-031-28-3-C-CCC-S	28	41/44	.015	.038	.096	.126	9.2
3006-031-29-3-C-CCC-S	29	51/46	.014	.030	.078	.108	7.0
3006-031-30-3-C-CCC-S	30	41/46	.012	.028	.074	.104	6.4
FOUR CONDUCTOR							
3006-031-20-4-C-CCC-S	20	105/40	.039	.065	.169	.209	31.5
3006-031-22-4-C-CCC-S	22	65/40	.031	.054	.149	.179	22.6
3006-031-24-4-C-CCC-S	24	41/40	.023	.047	.127	.157	16.8
3006-031-26-4-C-CCC-S	26	66/44	.019	.042	.115	.145	13.5
3006-031-28-4-C-CCC-S	28	41/44	.015	.038	.106	.136	11.2
3006-031-29-4-C-CCC-S	29	51/46	.014	.030	.086	.116	8.5
3006-031-30-4-C-CCC-S	30	41/46	.012	.028	.081	.111	7.7
FIVE CONDUCTOR							
3006-031-20-5-C-CCC-S	20	105/40	.039	.065	.186	.226	37.7
3006-031-22-5-C-CCC-S	22	65/40	.031	.054	.165	.195	26.9
3006-031-24-5-C-CCC-S	24	41/40	.023	.047	.141	.171	19.9
3006-031-26-5-C-CCC-S	26	66/44	.019	.042	.127	.157	15.9
3006-031-28-5-C-CCC-S	28	41/44	.015	.038	.116	.146	13.0
3006-031-29-5-C-CCC-S	29	51/46	.014	.030	.095	.125	9.8
3006-031-30-5-C-CCC-S	30	41/46	.012	.028	.089	.119	8.9
SIX CONDUCTOR							
3006-031-20-6-C-CCC-S	20	105/40	.039	.065	.206	.246	44.0
3006-031-22-6-C-CCC-S	22	65/40	.031	.054	.182	.222	32.8
3006-031-24-6-C-CCC-S	24	41/40	.023	.047	.155	.185	23.1
3006-031-26-6-C-CCC-S	26	66/44	.019	.042	.140	.170	18.3
3006-031-28-6-C-CCC-S	28	41/44	.015	.038	.128	.158	14.9
3006-031-29-6-C-CCC-S	29	51/46	.014	.030	.104	.134	11.2
3006-031-30-6-C-CCC-S	30	41/46	.012	.028	.098	.128	10.1

NOTE 1:
Data based on 85% braid
shield coverage. Other shield
coverages and types are available.

NOTE 2:
Additional AWG sizes and
conductor counts available.

NOTE 3:
See How to Order on the inside of the section
tab for further information.

SuperFlex Wire & Cable

PVC/PU

PVC INSULATED, SHIELDED AND PU JACKETED CABLES

PART NUMBER See How to Order Page for Information	AWG Size	Strands No./Size	Uninsulated Conductor Diameter	Insulated Conductor Diameter	Diameter Over Shield (Nominal)	Overall Diameter (Nominal)	Weight (lbs./M Ft.)
ONE CONDUCTOR							
3006-051-20-1-C-CCC-S	20	105/40	.039	.065	.079	.102	9.3
3006-051-22-1-C-CCC-S	22	65/40	.031	.054	.068	.094	7.2
3006-051-24-1-C-CCC-S	24	41/40	.023	.047	.061	.085	5.7
3006-051-26-1-C-CCC-S	26	66/44	.019	.042	.056	.076	4.5
3006-051-28-1-C-CCC-S	28	41/44	.015	.038	.052	.072	3.8
3006-051-29-1-C-CCC-S	29	51/46	.014	.030	.044	.064	3.0
3006-051-30-1-C-CCC-S	30	41/46	.012	.028	.042	.062	2.8
TWO CONDUCTOR							
3006-051-20-2-C-CCC-S	20	105/40	.039	.065	.137	.165	18.9
3006-051-22-2-C-CCC-S	22	65/40	.031	.054	.116	.150	14.0
3006-051-24-2-C-CCC-S	24	41/40	.023	.047	.103	.133	11.1
3006-051-26-2-C-CCC-S	26	66/44	.019	.042	.093	.123	9.1
3006-051-28-2-C-CCC-S	28	41/44	.015	.038	.086	.116	7.8
3006-051-29-2-C-CCC-S	29	51/46	.014	.030	.071	.099	5.8
3006-051-30-2-C-CCC-S	30	41/46	.012	.028	.067	.095	5.4
THREE CONDUCTOR							
3006-051-20-3-C-CCC-S	20	105/40	.039	.065	.154	.182	24.5
3006-051-22-3-C-CCC-S	22	65/40	.031	.054	.130	.165	18.3
3006-051-24-3-C-CCC-S	24	41/40	.023	.047	.115	.145	13.9
3006-051-26-3-C-CCC-S	26	66/44	.019	.042	.104	.134	11.5
3006-051-28-3-C-CCC-S	28	41/44	.015	.038	.096	.126	9.5
3006-051-29-3-C-CCC-S	29	51/46	.014	.030	.078	.108	7.2
3006-051-30-3-C-CCC-S	30	41/46	.012	.028	.074	.104	6.7
FOUR CONDUCTOR							
3006-051-20-4-C-CCC-S	20	105/40	.039	.065	.169	.209	32.2
3006-051-22-4-C-CCC-S	22	65/40	.031	.054	.149	.179	23.1
3006-051-24-4-C-CCC-S	24	41/40	.023	.047	.127	.157	17.3
3006-051-26-4-C-CCC-S	26	66/44	.019	.042	.115	.145	13.9
3006-051-28-4-C-CCC-S	28	41/44	.015	.038	.106	.136	11.5
3006-051-29-4-C-CCC-S	29	51/46	.014	.030	.086	.116	8.7
3006-051-30-4-C-CCC-S	30	41/46	.012	.028	.081	.111	8.0
FIVE CONDUCTOR							
3006-051-20-5-C-CCC-S	20	105/40	.039	.065	.186	.226	38.5
3006-051-22-5-C-CCC-S	22	65/40	.031	.054	.165	.195	27.5
3006-051-24-5-C-CCC-S	24	41/40	.023	.047	.141	.171	20.4
3006-051-26-5-C-CCC-S	26	66/44	.019	.042	.127	.157	16.3
3006-051-28-5-C-CCC-S	28	41/44	.015	.038	.116	.146	13.4
3006-051-29-5-C-CCC-S	29	51/46	.014	.030	.095	.125	10.1
3006-051-30-5-C-CCC-S	30	41/46	.012	.028	.089	.119	9.2
SIX CONDUCTOR							
3006-051-20-6-C-CCC-S	20	105/40	.039	.065	.206	.246	44.9
3006-051-22-6-C-CCC-S	22	65/40	.031	.054	.182	.222	33.6
3006-051-24-6-C-CCC-S	24	41/40	.023	.047	.155	.185	23.6
3006-051-26-6-C-CCC-S	26	66/44	.019	.042	.140	.170	18.8
3006-051-28-6-C-CCC-S	28	41/44	.015	.038	.128	.158	15.4
3006-051-29-6-C-CCC-S	29	51/46	.014	.030	.104	.134	11.5
3006-051-30-6-C-CCC-S	30	41/46	.012	.028	.098	.128	10.4

NOTE 1:

Data based on 85% braid shield coverage. Other shield coverages and types are available.

NOTE 2:

Additional AWG sizes and conductor counts available.

NOTE 3:

See How to Order on the inside of the section tab for further information.

SuperFlex Wire & Cable

PVC/PVC

PVC INSULATED, SHIELDED AND PVC JACKETED CABLES

PART NUMBER See How to Order Page for Information	AWG Size	Strands No./Size	Uninsulated Conductor Diameter	Insulated Conductor Diameter	Diameter Over Shield (Nominal)	Overall Diameter (Nominal)	Weight (lbs./M Ft.)
ONE CONDUCTOR							
3006-023-20-1-C-CCC-S	20	105/40	.039	.065	.079	.102	9.7
3006-023-22-1-C-CCC-S	22	65/40	.031	.054	.068	.091	7.5
3006-023-24-1-C-CCC-S	24	41/40	.023	.047	.061	.084	5.9
3006-023-26-1-C-CCC-S	26	66/44	.019	.042	.056	.075	4.7
3006-023-28-1-C-CCC-S	28	41/44	.015	.038	.052	.071	4.0
3006-023-29-1-C-CCC-S	29	51/46	.014	.030	.044	.063	3.2
3006-023-30-1-C-CCC-S	30	41/46	.012	.028	.042	.061	3.0
TWO CONDUCTOR							
3006-023-20-2-C-CCC-S	20	105/40	.039	.065	.137	.163	19.6
3006-023-22-2-C-CCC-S	22	65/40	.031	.054	.116	.142	14.7
3006-023-24-2-C-CCC-S	24	41/40	.023	.047	.103	.126	11.7
3006-023-26-2-C-CCC-S	26	66/44	.019	.042	.093	.117	9.6
3006-023-28-2-C-CCC-S	28	41/44	.015	.038	.086	.109	8.3
3006-023-29-2-C-CCC-S	29	51/46	.014	.030	.071	.092	6.2
3006-023-30-2-C-CCC-S	30	41/46	.012	.028	.067	.088	5.8
THREE CONDUCTOR							
3006-023-20-3-C-CCC-S	20	105/40	.039	.065	.154	.179	25.3
3006-023-22-3-C-CCC-S	22	65/40	.031	.054	.130	.156	19.0
3006-023-24-3-C-CCC-S	24	41/40	.023	.047	.115	.141	14.6
3006-023-26-3-C-CCC-S	26	66/44	.019	.042	.104	.128	12.1
3006-023-28-3-C-CCC-S	28	41/44	.015	.038	.096	.119	10.0
3006-023-29-3-C-CCC-S	29	51/46	.014	.030	.078	.100	7.7
3006-023-30-3-C-CCC-S	30	41/46	.012	.028	.074	.095	7.1
FOUR CONDUCTOR							
3006-023-20-4-C-CCC-S	20	105/40	.039	.065	.169	.209	33.4
3006-023-22-4-C-CCC-S	22	65/40	.031	.054	.149	.179	23.8
3006-023-24-4-C-CCC-S	24	41/40	.023	.047	.127	.157	17.9
3006-023-26-4-C-CCC-S	26	66/44	.019	.042	.115	.145	14.5
3006-023-28-4-C-CCC-S	28	41/44	.015	.038	.106	.136	12.1
3006-023-29-4-C-CCC-S	29	51/46	.014	.030	.086	.116	9.2
3006-023-30-4-C-CCC-S	30	41/46	.012	.028	.081	.111	8.5
FIVE CONDUCTOR							
3006-023-20-5-C-CCC-S	20	105/40	.039	.065	.186	.226	39.8
3006-023-22-5-C-CCC-S	22	65/40	.031	.054	.165	.195	28.3
3006-023-24-5-C-CCC-S	24	41/40	.023	.047	.141	.171	21.1
3006-023-26-5-C-CCC-S	26	66/44	.019	.042	.127	.157	16.9
3006-023-28-5-C-CCC-S	28	41/44	.015	.038	.116	.146	14.0
3006-023-29-5-C-CCC-S	29	51/46	.014	.030	.095	.125	10.7
3006-023-30-5-C-CCC-S	30	41/46	.012	.028	.089	.119	9.79
SIX CONDUCTOR							
3006-023-20-6-C-CCC-S	20	105/40	.039	.065	.206	.246	46.2
3006-023-22-6-C-CCC-S	22	65/40	.031	.054	.182	.222	34.8
3006-023-24-6-C-CCC-S	24	41/40	.023	.047	.155	.185	24.3
3006-023-26-6-C-CCC-S	26	66/44	.019	.042	.140	.170	19.5
3006-023-28-6-C-CCC-S	28	41/44	.015	.038	.128	.158	16.0
3006-023-29-6-C-CCC-S	29	51/46	.014	.030	.104	.134	12.1
3006-023-30-6-C-CCC-S	30	41/46	.012	.028	.098	.128	10.9

NOTE 1:
Data based on 85% braid shield coverage. Other shield coverages and types are available.

NOTE 2:
Additional AWG sizes and conductor counts available.

NOTE 3:
See How to Order on the inside of the section tab for further information.

FluoroFlex Wire & Cable

Fluoroflex Hookup and Multiconductor Cables

FEATURES:

- Low coefficient of friction
- Wide operating temperature usage range -150°C to 200 °C
- Electrically stable
- High flexural fatigue life
- Flame resistant
- Will not outgas

GENERAL DESCRIPTION

Calmont's precision extrusion techniques combine the superior properties of FEP Teflon® with the durability of a highly stranded conductor to produce an unequalled product — FluoroFlex. It is small and lightweight, yet will withstand the severe and repeated flexing that usually destroys other fluorocarbon insulated wires.

APPLICATIONS

FluoroFlex is highly versatile and suitable for broad usage in aerospace, computer and medical electronics. Being chemically inert, FluoroFlex can be used for medical implantation. It has the smallest finished diameter of any of the Calmont's high flex products. This is of great importance in aerospace applications. FluoroFlex's excellent dielectric properties also make it ideal for data and audio applications.

MULTICONDUCTOR JACKET OPTIONS

• FEP • SILICONE • TPE • POLYURETHANE • PU • PVC

General Specifications

ELECTRICAL PROPERTIES	D.C. Volume Resistivity (ohm – CM)	2 x 10 ¹⁸
	Dielectric Strength (VPM on .125 slab)	600
	Dielectric Constant:	
	at 60 Hz	2.1
	at 10 ³ Hz	2.1
	at 10 ⁶ Hz	2.1
	Dissipation Factor:	
	at 60 Hz	.0003
	at 10 ³ Hz	.0003
	at 10 ⁶ Hz	.0007
PHYSICAL PROPERTIES	Specific Gravity	2.13 – 2.20
	Specific Volume (cubic inches/pound)	13.2 – 12.6
	Elongation (%)	250 – 330
	Burning Rate	0
THERMAL PROPERTIES	Temperature Rating (severe and repeated flexing)	-150 to 200 °C
	Temperature Rating (limited flexing)	From -268°C

Calmont FluoroFlex Hookup Wire

Part Number	Bare Copper Conductor ¹						Finished Wire			
	AWG SIZE	(No. of Strands/ Strand Size)	Strand Diameter (inches)	Conductor Diameter (Nominal)	Conductor Area (CM) (Nominal)	Conductor Resistance (OHMS/1000' NOM)	Current Carrying Capacity @80°C (approximate)	Outside Diameter (± .003)	Weight (lbs./1000') approximate	Stiffness Comparison (pounds)
3006-024-20-1-C-U-CCC	20	105/40	.0031	.039	1038.30	10.00	4.00	.054	4.82	.1800
3006-024-22-1-C-U-CCC	22	65/40	.0031	.031	642.70	16.10	2.50	.040	2.80	.1500
3006-024-24-1-C-U-CCC	24	41/40	.0031	.023	405.40	25.60	1.60	.031	1.77	.1100
3006-024-26-1-C-U-CCC	26	66/44	.0020	.019	258.10	40.20	1.00	.024	10.90	.0500
3006-024-28-1-C-U-CCC	28	41/44	.0020	.015	160.40	64.70	.60	.020	.72	.0240
3006-024-29-1-C-U-CCC	29	51/46	.0016	.014	125.50	82.70	.50	.019	.58	.0120
3006-024-30-1-C-U-CCC	30	41/46	.0016	.012	100.90	102.80	.40	.017	.48	.0072
3006-024-32-1-C-U-CCC	32	27/46	.0016	.009	66.41	156.20	.25	.015	.35	.0051
3006-024-34-1-C-U-CCC	34	40/50	.0010	.008	38.92	366.50	.16	.014	.25	.0038
3006-024-36-1-C-U-CCC	36	25/50	.0010	.006	24.32	426.40	.10	.012	.17	.0030
3006-024-38-1-C-U-CCC	38	16/50	.0010	.005	15.57	666.20	.06	.011	.13	.0024
3006-024-40-1-C-U-CCC	40	12/50	.0010	.003	11.67	888.30	.04	.010	.11	.0022

¹Contact Calmont for additional conductor options

FluoroFlex Wire & Cable

FEP/FEP

FEP INSULATED, SHIELDED AND FEP JACKETED CABLES

PART NUMBER See How to Order Page for Information	AWG Size	Strands No./Size	Uninsulated Conductor Diameter	Insulated Conductor Diameter	Diameter Over Shield (Nominal)	Overall Diameter (Nominal)	Weight (lbs./M Ft.)
ONE CONDUCTOR							
3006-024-20-1-C-CCC-S	20	105/40	.039	.054	.068	.088	9.5
3006-024-22-1-C-CCC-S	22	65/40	.031	.040	.054	.074	6.6
3006-024-24-1-C-CCC-S	24	41/40	.023	.031	.045	.065	5.0
3006-024-26-1-C-CCC-S	26	66/44	.019	.024	.038	.054	3.5
3006-024-28-1-C-CCC-S	28	41/44	.015	.020	.034	.050	2.8
3006-024-29-1-C-CCC-S	29	51/46	.014	.019	.033	.049	2.6
3006-024-30-1-C-CCC-S	30	41/46	.012	.017	.031	.047	2.4
TWO CONDUCTOR							
3006-024-20-2-C-CCC-S	20	105/40	.039	.054	.116	.140	18.5
3006-024-22-2-C-CCC-S	22	65/40	.031	.040	.090	.114	12.5
3006-024-24-2-C-CCC-S	24	41/40	.023	.031	.073	.097	9.1
3006-024-26-2-C-CCC-S	26	66/44	.019	.024	.059	.079	6.3
3006-024-28-2-C-CCC-S	28	41/44	.015	.020	.052	.072	5.0
3006-024-29-2-C-CCC-S	29	51/46	.014	.019	.050	.070	4.6
3006-024-30-2-C-CCC-S	30	41/46	.012	.017	.046	.062	3.8
THREE CONDUCTOR							
3006-024-20-3-C-CCC-S	20	105/40	.039	.054	.130	.154	24.3
3006-024-22-3-C-CCC-S	22	65/40	.031	.040	.100	.124	16.0
3006-024-24-3-C-CCC-S	24	41/40	.023	.031	.081	.105	11.5
3006-024-26-3-C-CCC-S	26	66/44	.019	.024	.065	.085	7.8
3006-024-28-3-C-CCC-S	28	41/44	.015	.020	.057	.077	6.1
3006-024-29-3-C-CCC-S	29	51/46	.014	.019	.055	.075	5.5
3006-024-30-3-C-CCC-S	30	41/46	.012	.017	.050	.070	4.9
FOUR CONDUCTOR							
3006-024-20-4-C-CCC-S	20	105/40	.039	.054	.144	.174	32.1
3006-024-22-4-C-CCC-S	22	65/40	.031	.040	.110	.140	21.1
3006-024-24-4-C-CCC-S	24	41/40	.023	.031	.088	.112	14.0
3006-024-26-4-C-CCC-S	26	66/44	.019	.024	.072	.096	10.1
3006-024-28-4-C-CCC-S	28	41/44	.015	.020	.062	.082	7.3
3006-024-29-4-C-CCC-S	29	51/46	.014	.019	.060	.080	6.6
3006-024-30-4-C-CCC-S	30	41/46	.012	.017	.055	.075	5.8
FIVE CONDUCTOR							
3006-024-20-5-C-CCC-S	20	105/40	.039	.054	.159	.195	39.9
3006-024-22-5-C-CCC-S	22	65/40	.031	.040	.122	.152	24.9
3006-024-24-5-C-CCC-S	24	41/40	.023	.031	.097	.121	16.5
3006-024-26-5-C-CCC-S	26	66/44	.019	.024	.078	.102	11.7
3006-024-28-5-C-CCC-S	28	41/44	.015	.020	.068	.088	8.4
3006-024-29-5-C-CCC-S	29	51/46	.014	.019	.065	.085	7.5
3006-024-30-5-C-CCC-S	30	41/46	.012	.017	.060	.080	6.7
SIX CONDUCTOR							
3006-024-20-6-C-CCC-S	20	105/40	.039	.054	.176	.212	46.3
3006-024-22-6-C-CCC-S	22	65/40	.031	.040	.134	.164	28.7
3006-024-24-6-C-CCC-S	24	41/40	.023	.031	.107	.131	19.0
3006-024-26-6-C-CCC-S	26	66/44	.019	.024	.086	.110	13.3
3006-024-28-6-C-CCC-S	28	41/44	.015	.020	.074	.098	10.1
3006-024-29-6-C-CCC-S	29	51/46	.014	.019	.071	.095	9.1
3006-024-30-6-C-CCC-S	30	41/46	.012	.017	.065	.085	7.5

NOTE 1:

Data based on 85% braid shield coverage. Other shield coverages and types are available.

NOTE 2:

Additional AWG sizes and conductor counts available.

NOTE 3:

See How to Order on the inside of the section tab for further information.

FluoroFlex Wire & Cable

FEP INSULATED, SHIELDED AND SILICONE JACKETED CABLES

FEP/SILICONE

PART NUMBER See How to Order Page for Information	AWG Size	Strands No./Size	Uninsulated Conductor Diameter	Insulated Conductor Diameter	Diameter Over Shield (Nominal)	Overall Diameter (Nominal)	Weight (lbs./M Ft.)
ONE CONDUCTOR							
3006-029-20-1-C-CCC-S	20	105/40	.039	.054	.068	.092	8.6
3006-029-22-1-C-CCC-S	22	65/40	.031	.040	.054	.074	5.6
3006-029-24-1-C-CCC-S	24	41/40	.023	.031	.045	.065	4.2
3006-029-26-1-C-CCC-S	26	66/44	.019	.024	.038	.058	3.1
3006-029-28-1-C-CCC-S	28	41/44	.015	.020	.034	.054	2.4
3006-029-29-1-C-CCC-S	29	51/46	.014	.019	.033	.053	2.3
3006-029-30-1-C-CCC-S	30	41/46	.012	.017	.031	.051	2.1
TWO CONDUCTOR							
3006-029-20-2-C-CCC-S	20	105/40	.039	.054	.116	.146	16.8
3006-029-22-2-C-CCC-S	22	65/40	.031	.040	.090	.120	11.2
3006-029-24-2-C-CCC-S	24	41/40	.023	.031	.073	.103	8.0
3006-029-26-2-C-CCC-S	26	66/44	.019	.024	.059	.079	5.2
3006-029-28-2-C-CCC-S	28	41/44	.015	.020	.052	.072	4.1
3006-029-29-2-C-CCC-S	29	51/46	.014	.019	.050	.070	3.7
3006-029-30-2-C-CCC-S	30	41/46	.012	.017	.046	.066	3.4
THREE CONDUCTOR							
3006-029-20-3-C-CCC-S	20	105/40	.039	.054	.130	.160	22.5
3006-029-22-3-C-CCC-S	22	65/40	.031	.040	.100	.130	14.6
3006-029-24-3-C-CCC-S	24	41/40	.023	.031	.081	.111	10.3
3006-029-26-3-C-CCC-S	26	66/44	.019	.024	.065	.089	6.9
3006-029-28-3-C-CCC-S	28	41/44	.015	.020	.057	.081	5.3
3006-029-29-3-C-CCC-S	29	51/46	.014	.019	.055	.075	4.6
3006-029-30-3-C-CCC-S	30	41/46	.012	.017	.050	.070	4.0
FOUR CONDUCTOR							
3006-029-20-4-C-CCC-S	20	105/40	.039	.054	.144	.174	28.5
3006-029-22-4-C-CCC-S	22	65/40	.031	.040	.110	.140	18.3
3006-029-24-4-C-CCC-S	24	41/40	.023	.031	.088	.112	12.2
3006-029-26-4-C-CCC-S	26	66/44	.019	.024	.072	.096	8.6
3006-029-28-4-C-CCC-S	28	41/44	.015	.020	.062	.082	6.2
3006-029-29-4-C-CCC-S	29	51/46	.014	.019	.060	.080	5.6
3006-029-30-4-C-CCC-S	30	41/46	.012	.017	.055	.075	4.9
FIVE CONDUCTOR							
3006-029-20-5-C-CCC-S	20	105/40	.039	.054	.159	.189	34.3
3006-029-22-5-C-CCC-S	22	65/40	.031	.040	.122	.152	21.8
3006-029-24-5-C-CCC-S	24	41/40	.023	.031	.097	.127	15.1
3006-029-26-5-C-CCC-S	26	66/44	.019	.024	.078	.102	10.0
3006-029-28-5-C-CCC-S	28	41/44	.015	.020	.068	.088	7.3
3006-029-29-5-C-CCC-S	29	51/46	.014	.019	.065	.085	6.4
3006-029-30-5-C-CCC-S	30	41/46	.012	.017	.060	.080	5.6
SIX CONDUCTOR							
3006-029-20-6-C-CCC-S	20	105/40	.039	.054	.176	.206	40.2
3006-029-22-6-C-CCC-S	22	65/40	.031	.040	.134	.164	25.4
3006-029-24-6-C-CCC-S	24	41/40	.023	.031	.107	.137	17.5
3006-029-26-6-C-CCC-S	26	66/44	.019	.024	.086	.110	11.6
3006-029-28-6-C-CCC-S	28	41/44	.015	.020	.074	.098	8.6
3006-029-29-6-C-CCC-S	29	51/46	.014	.019	.071	.091	7.3
3006-029-30-6-C-CCC-S	30	41/46	.012	.017	.065	.085	6.4

NOTE 1:

Data based on 85% braid shield coverage. Other shield coverages and types are available.

NOTE 2:

Additional AWG sizes and conductor counts available.

NOTE 3:

See How to Order on the inside of the section tab for further information.

FluoroFlex Wire & Cable

FEP/TPE

FEP INSULATED, SHIELDED AND TPE JACKETED CABLES

PART NUMBER See How to Order Page for Information	AWG Size	Strands No./Size	Uninsulated Conductor Diameter	Insulated Conductor Diameter	Diameter Over Shield (Nominal)	Overall Diameter (Nominal)	Weight (lbs./M Ft.)
ONE CONDUCTOR							
3006-032-20-1-C-CCC-S	20	105/40	.039	.054	.068	.092	8.5
3006-032-22-1-C-CCC-S	22	65/40	.031	.040	.054	.074	5.5
3006-032-24-1-C-CCC-S	24	41/40	.023	.031	.045	.065	4.1
3006-032-26-1-C-CCC-S	26	66/44	.019	.024	.038	.058	3.0
3006-032-28-1-C-CCC-S	28	41/44	.015	.020	.034	.054	2.4
3006-032-29-1-C-CCC-S	29	51/46	.014	.019	.033	.053	2.2
3006-032-30-1-C-CCC-S	30	41/46	.012	.017	.031	.051	2.1
TWO CONDUCTOR							
3006-032-20-2-C-CCC-S	20	105/40	.039	.054	.116	.146	16.5
3006-032-22-2-C-CCC-S	22	65/40	.031	.040	.090	.120	10.9
3006-032-24-2-C-CCC-S	24	41/40	.023	.031	.073	.103	7.8
3006-032-26-2-C-CCC-S	26	66/44	.019	.024	.059	.079	5.1
3006-032-28-2-C-CCC-S	28	41/44	.015	.020	.052	.072	4.0
3006-032-29-2-C-CCC-S	29	51/46	.014	.019	.050	.070	3.6
3006-032-30-2-C-CCC-S	30	41/46	.012	.017	.046	.066	3.3
THREE CONDUCTOR							
3006-032-20-3-C-CCC-S	20	105/40	.039	.054	.130	.160	22.2
3006-032-22-3-C-CCC-S	22	65/40	.031	.040	.100	.130	14.4
3006-032-24-3-C-CCC-S	24	41/40	.023	.031	.081	.111	10.1
3006-032-26-3-C-CCC-S	26	66/44	.019	.024	.065	.089	6.8
3006-032-28-3-C-CCC-S	28	41/44	.015	.020	.057	.081	5.2
3006-032-29-3-C-CCC-S	29	51/46	.014	.019	.055	.075	4.5
3006-032-30-3-C-CCC-S	30	41/46	.012	.017	.050	.070	3.9
FOUR CONDUCTOR							
3006-032-20-4-C-CCC-S	20	105/40	.039	.054	.144	.174	28.2
3006-032-22-4-C-CCC-S	22	65/40	.031	.040	.110	.140	18.0
3006-032-24-4-C-CCC-S	24	41/40	.023	.031	.088	.112	12.1
3006-032-26-4-C-CCC-S	26	66/44	.019	.024	.072	.096	8.4
3006-032-28-4-C-CCC-S	28	41/44	.015	.020	.062	.082	6.1
3006-032-29-4-C-CCC-S	29	51/46	.014	.019	.060	.080	5.5
3006-032-30-4-C-CCC-S	30	41/46	.012	.017	.055	.075	4.8
FIVE CONDUCTOR							
3006-032-20-5-C-CCC-S	20	105/40	.039	.054	.159	.189	33.9
3006-032-22-5-C-CCC-S	22	65/40	.031	.040	.122	.152	21.5
3006-032-24-5-C-CCC-S	24	41/40	.023	.031	.097	.127	14.8
3006-032-26-5-C-CCC-S	26	66/44	.019	.024	.078	.102	9.9
3006-032-28-5-C-CCC-S	28	41/44	.015	.020	.068	.088	7.2
3006-032-29-5-C-CCC-S	29	51/46	.014	.019	.065	.085	6.3
3006-032-30-5-C-CCC-S	30	41/46	.012	.017	.060	.080	5.5
SIX CONDUCTOR							
3006-032-20-6-C-CCC-S	20	105/40	.039	.054	.176	.206	39.8
3006-032-22-6-C-CCC-S	22	65/40	.031	.040	.134	.164	25.1
3006-032-24-6-C-CCC-S	24	41/40	.023	.031	.107	.137	17.2
3006-032-26-6-C-CCC-S	26	66/44	.019	.024	.086	.110	11.4
3006-032-28-6-C-CCC-S	28	41/44	.015	.020	.074	.098	8.5
3006-032-29-6-C-CCC-S	29	51/46	.014	.019	.071	.091	7.2
3006-032-30-6-C-CCC-S	30	41/46	.012	.017	.065	.085	6.3

NOTE 1:

Data based on 85% braid shield coverage. Other shield coverages and types are available.

NOTE 2:

Additional AWG sizes and conductor counts available.

NOTE 3:

See How to Order on the inside of the section tab for further information.

FluoroFlex Wire & Cable

FEP/PVC

FEP INSULATED, SHIELDED AND PVC JACKETED CABLES

PART NUMBER See How to Order Page for Information	AWG Size	Strands No./Size	Uninsulated Conductor Diameter	Insulated Conductor Diameter	Diameter Over Shield (Nominal)	Overall Diameter (Nominal)	Weight (lbs./M Ft.)
ONE CONDUCTOR							
3006-022-20-1-C-CCC-S	20	105/40	.039	.054	.068	.092	9.0
3006-022-22-1-C-CCC-S	22	65/40	.031	.040	.054	.074	5.8
3006-022-24-1-C-CCC-S	24	41/40	.023	.031	.045	.065	4.4
3006-022-26-1-C-CCC-S	26	66/44	.019	.024	.038	.058	3.3
3006-022-28-1-C-CCC-S	28	41/44	.015	.020	.034	.054	2.6
3006-022-29-1-C-CCC-S	29	51/46	.014	.019	.033	.053	2.4
3006-022-30-1-C-CCC-S	30	41/46	.012	.017	.031	.051	2.3
TWO CONDUCTOR							
3006-022-20-2-C-CCC-S	20	105/40	.039	.054	.116	.146	17.5
3006-022-22-2-C-CCC-S	22	65/40	.031	.040	.090	.120	11.7
3006-022-24-2-C-CCC-S	24	41/40	.023	.031	.073	.103	8.5
3006-022-26-2-C-CCC-S	26	66/44	.019	.024	.059	.079	5.5
3006-022-28-2-C-CCC-S	28	41/44	.015	.020	.052	.072	4.3
3006-022-29-2-C-CCC-S	29	51/46	.014	.019	.050	.070	3.9
3006-022-30-2-C-CCC-S	30	41/46	.012	.017	.046	.066	3.6
THREE CONDUCTOR							
3006-022-20-3-C-CCC-S	20	105/40	.039	.054	.130	.160	23.3
3006-022-22-3-C-CCC-S	22	65/40	.031	.040	.100	.130	15.2
3006-022-24-3-C-CCC-S	24	41/40	.023	.031	.081	.111	10.8
3006-022-26-3-C-CCC-S	26	66/44	.019	.024	.065	.089	7.3
3006-022-28-3-C-CCC-S	28	41/44	.015	.020	.057	.081	5.6
3006-022-29-3-C-CCC-S	29	51/46	.014	.019	.055	.075	4.8
3006-022-30-3-C-CCC-S	30	41/46	.012	.017	.050	.070	4.2
FOUR CONDUCTOR							
3006-022-20-4-C-CCC-S	20	105/40	.039	.054	.144	.174	29.4
3006-022-22-4-C-CCC-S	22	65/40	.031	.040	.110	.140	18.9
3006-022-24-4-C-CCC-S	24	41/40	.023	.031	.088	.112	12.7
3006-022-26-4-C-CCC-S	26	66/44	.019	.024	.072	.096	8.9
3006-022-28-4-C-CCC-S	28	41/44	.015	.020	.062	.082	6.5
3006-022-29-4-C-CCC-S	29	51/46	.014	.019	.060	.080	5.8
3006-022-30-4-C-CCC-S	30	41/46	.012	.017	.055	.075	5.1
FIVE CONDUCTOR							
3006-022-20-5-C-CCC-S	20	105/40	.039	.054	.159	.189	35.3
3006-022-22-5-C-CCC-S	22	65/40	.031	.040	.122	.152	22.6
3006-022-24-5-C-CCC-S	24	41/40	.023	.031	.097	.12734	15.7
3006-022-26-5-C-CCC-S	26	66/44	.019	.024	.078	.10244	10.4
3006-022-28-5-C-CCC-S	28	41/44	.015	.020	.068	.08764	7.6
3006-022-29-5-C-CCC-S	29	51/46	.014	.019	.065	.08494	6.7
3006-022-30-5-C-CCC-S	30	41/46	.012	.017	.060	.07954	5.9
SIX CONDUCTOR							
3006-022-20-6-C-CCC-S	20	105/40	.039	.054	.176	.20564	41.2
3006-022-22-6-C-CCC-S	22	65/40	.031	.040	.134	.16364	26.2
3006-022-24-6-C-CCC-S	24	41/40	.023	.031	.107	.13664	18.2
3006-022-26-6-C-CCC-S	26	66/44	.019	.024	.086	.10964	12.0
3006-022-28-6-C-CCC-S	28	41/44	.015	.020	.074	.09764	9.0
3006-022-29-6-C-CCC-S	29	51/46	.014	.019	.071	.09064	7.6
3006-022-30-6-C-CCC-S	30	41/46	.012	.017	.065	.08464	6.7

NOTE 1:

Data based on 85% braid shield coverage. Other shield coverages and types are available.

NOTE 2:

Additional AWG sizes and conductor counts available.

NOTE 3:

See How to Order on the inside of the section tab for further information.

FluoroFlex Wire & Cable

FEP/POLYURETHANE

FEP INSULATED, SHIELDED AND PU JACKETED CABLES

PART NUMBER See How to Order Page for Information	AWG Size	Strands No./Size	Uninsulated Conductor Diameter	Insulated Conductor Diameter	Diameter Over Shield (Nominal)	Overall Diameter (Nominal)	Weight (lbs./M Ft.)
ONE CONDUCTOR							
3006-052-20-1-C-CCC-S	20	105/40	.039	.054	.068	.092	8.6
3006-052-22-1-C-CCC-S	22	65/40	.031	.040	.054	.074	5.6
3006-052-24-1-C-CCC-S	24	41/40	.023	.031	.045	.065	4.2
3006-052-26-1-C-CCC-S	26	66/44	.019	.024	.038	.058	3.1
3006-052-28-1-C-CCC-S	28	41/44	.015	.020	.034	.054	2.4
3006-052-29-1-C-CCC-S	29	51/46	.014	.019	.033	.053	2.3
3006-052-30-1-C-CCC-S	30	41/46	.012	.017	.031	.051	2.1
TWO CONDUCTOR							
3006-052-20-2-C-CCC-S	20	105/40	.039	.054	.116	.146	16.8
3006-052-22-2-C-CCC-S	22	65/40	.031	.040	.090	.120	11.2
3006-052-24-2-C-CCC-S	24	41/40	.023	.031	.073	.103	8.0
3006-052-26-2-C-CCC-S	26	66/44	.019	.024	.059	.079	5.2
3006-052-28-2-C-CCC-S	28	41/44	.015	.020	.052	.072	4.1
3006-052-29-2-C-CCC-S	29	51/46	.014	.019	.050	.070	3.7
3006-052-30-2-C-CCC-S	30	41/46	.012	.017	.046	.066	3.4
THREE CONDUCTOR							
3006-052-20-3-C-CCC-S	20	105/40	.039	.054	.130	.160	22.5
3006-052-22-3-C-CCC-S	22	65/40	.031	.040	.100	.130	14.6
3006-052-24-3-C-CCC-S	24	41/40	.023	.031	.081	.111	10.3
3006-052-26-3-C-CCC-S	26	66/44	.019	.024	.065	.089	6.9
3006-052-28-3-C-CCC-S	28	41/44	.015	.020	.057	.081	5.3
3006-052-29-3-C-CCC-S	29	51/46	.014	.019	.055	.075	4.6
3006-052-30-3-C-CCC-S	30	41/46	.012	.017	.050	.070	4.0
FOUR CONDUCTOR							
3006-052-20-4-C-CCC-S	20	105/40	.039	.054	.144	.174	28.5
3006-052-22-4-C-CCC-S	22	65/40	.031	.040	.110	.140	18.3
3006-052-24-4-C-CCC-S	24	41/40	.023	.031	.088	.112	12.2
3006-052-26-4-C-CCC-S	26	66/44	.019	.024	.072	.096	8.6
3006-052-28-4-C-CCC-S	28	41/44	.015	.020	.062	.082	6.2
3006-052-29-4-C-CCC-S	29	51/46	.014	.019	.060	.080	5.6
3006-052-30-4-C-CCC-S	30	41/46	.012	.017	.055	.075	4.9
FIVE CONDUCTOR							
3006-052-20-5-C-CCC-S	20	105/40	.039	.054	.159	.189	34.3
3006-052-22-5-C-CCC-S	22	65/40	.031	.040	.122	.152	21.8
3006-052-24-5-C-CCC-S	24	41/40	.023	.031	.097	.127	15.1
3006-052-26-5-C-CCC-S	26	66/44	.019	.024	.078	.102	10.0
3006-052-28-5-C-CCC-S	28	41/44	.015	.020	.068	.088	7.3
3006-052-29-5-C-CCC-S	29	51/46	.014	.019	.065	.085	6.4
3006-052-30-5-C-CCC-S	30	41/46	.012	.017	.060	.080	5.6
SIX CONDUCTOR							
3006-052-20-6-C-CCC-S	20	105/40	.039	.054	.176	.206	40.2
3006-052-22-6-C-CCC-S	22	65/40	.031	.040	.134	.164	25.4
3006-052-24-6-C-CCC-S	24	41/40	.023	.031	.107	.137	17.5
3006-052-26-6-C-CCC-S	26	66/44	.019	.024	.086	.110	11.6
3006-052-28-6-C-CCC-S	28	41/44	.015	.020	.074	.098	8.6
3006-052-29-6-C-CCC-S	29	51/46	.014	.019	.071	.091	7.3
3006-052-30-6-C-CCC-S	30	41/46	.012	.017	.065	.085	6.4

NOTE 1:
Data based on 85% braid
shield coverage. Other shield
coverages and types are available.

NOTE 2:
Additional AWG sizes and
conductor counts available.

NOTE 3:
See How to Order on the inside of the section tab.
For further information.

SiliFlex Wire & Cable

SiliFlex Hookup and Multiconductor Cables

FEATURES:

- Resistant to temperature extremes
- Excellent electrical characteristics
- Easily stripped
- Lightweight
- Corona resistant
- High radiation resistance

GENERAL DESCRIPTION

SiliFlex is distinguished by its extreme limpness and flexibility. It is the most limber of all the High Flex Products offered by Calmont. Silicone rubber insulation compounds are inherently soft and pliable and resists the plastic flow that characterizes many insulation systems. Silicone compounds can be tailored to meet a variety of demands such as extreme high and low temperature requirements, flame resistance, flexibility, radiation resistance, strength and purity.

APPLICATIONS

SiliFlex is used extensively for robotic, aerospace and medical applications.

MULTICONDUCTOR JACKET OPTIONS

• Silicone • FEP • TPE

General Specifications

ELECTRICAL PROPERTIES

D.C. Volume Resistivity (ohm – CM)	1 x 10 ¹⁵
Dielectric Strength (VPM on .075 slab)	550 - 700
Dielectric Constant	1000
at 60 Hz	2.9 - 3.5
Power Factor at 60 Hz	.002 - .004
Radiation Resistant (Roentgens)	1 x 10 ⁸

PHYSICAL PROPERTIES

Specific Gravity	1.20 - 1.45
Elongation (%)	125 (min.)
Shore Hardness (A Scale)	65 (avg.)
Tensile Strength (PSI)	800 - 1100

THERMAL PROPERTIES

Temperature Rating	-100°F to 400 °F
Estimated Useful Life - at -80 °F	Indefinite
- at 250 °F	10 years
- at 300 °F	5 years
- at 400 °F	2 years
- at 500 °F	3 months

FLAME RESISTANCE

Siliflex is available with a self-extinguishing silicone rubber insulation that will pass the Underwriters' Laboratories® VW-1 flame test and the 45° angle flame test of MIL-W-16878.

MEDICAL USAGE

Siliflex can be manufactured with medical grade silicone compounded under clean room conditions. This can be used for medical implantation. To maintain the highest level of purity, the insulation is available nonpigmented (translucent).

Calmont SiliFlex Hookup Wire

Part Number	Bare Copper Conductor ¹						Finished Wire			
	AWG SIZE	(No. of Strands/ Strand Size)	Strand Diameter (inches)	Conductor Diameter (Nominal)	Conductor Area (CM) (Nominal)	Conductor Resistance (OHMS/1000' NOM)	Current Carrying Capacity @80°C (approximate)	Outside Diameter (± .003)	Weight (lbs./1000') approximate	Stiffness Comparison (pounds)
3006-028-20-1-C-CCC-S	20	105/40	.0031	.039	1038.00	10.00	4.00	.064	4.94	.1400
3006-028-22-1-C-CCC-S	22	65/40	.0031	.031	642.00	16.10	2.50	.056	3.34	.0500
3006-028-24-1-C-CCC-S	24	41/40	.0031	.023	405.00	25.60	1.60	.047	2.25	.0200
3006-028-26-1-C-CCC-S	26	66/44	.0020	.019	258.00	40.20	1.00	.042	1.61	.0090
3006-028-28-1-C-CCC-S	28	41/44	.0020	.015	160.00	64.70	.60	.038	1.17	.0056
3006-028-29-1-C-CCC-S	29	51/46	.0016	.014	125.00	82.70	.50	.030	.79	.0040
3006-028-30-1-C-CCC-S	30	41/46	.0016	.012	100.00	102.80	.40	.028	.67	.0020
3006-028-32-1-C-CCC-S	32	27/46	.0010	.008	38.00	266.50	.16	.022	.35	.0015
3006-028-34-1-C-CCC-S	34	40/50	.0010	.006	24.00	426.40	.10	.020	.27	.0012
3006-028-36-1-C-CCC-S	36	25/50	.0010	.005	16.00	666.20	.60	.019	.22	.0009
3006-028-38-1-C-CCC-S	38	16/50	.0010	.005	15.57	666.20	.06	.019	.22	.0039
3006-028-40-1-C-CCC-S	40	12/50	.0010	.003	12.00	888.30	.04	.018	.19	.0008

¹Contact Calmont for additional conductor options

SiliFlex Wire & Cable

SILICONE/SILICONE

SILICONE INSULATED, SHIELDED AND SILICONE JACKETED CABLES

PART NUMBER See How to Order Page for Information	AWG Size	Strands No./Size	Uninsulated Conductor Diameter	Insulated Conductor Diameter	Diameter Over Shield (Nominal)	Overall Diameter (Nominal)	Weight (lbs./M Ft.)
ONE CONDUCTOR							
3006-028-20-1-C-CCC-S	20	105/40	.039	.064	.078	.102	9.6
3006-028-22-1-C-CCC-S	22	65/40	.031	.056	.070	.094	7.5
3006-028-24-1-C-CCC-S	24	41/40	.023	.047	.061	.085	5.9
3006-028-26-1-C-CCC-S	26	66/44	.019	.042	.056	.076	4.6
3006-028-28-1-C-CCC-S	28	41/44	.015	.038	.052	.072	4.0
3006-028-29-1-C-CCC-S	29	51/46	.014	.030	.044	.064	3.2
3006-028-30-1-C-CCC-S	30	41/46	.012	.028	.042	.062	3.0
TWO CONDUCTOR							
3006-028-20-2-C-CCC-S	20	105/40	.039	.064	.135	.165	19.4
3006-028-22-2-C-CCC-S	22	65/40	.031	.056	.120	.150	15.0
3006-028-24-2-C-CCC-S	24	41/40	.023	.047	.103	.133	11.6
3006-028-26-2-C-CCC-S	26	66/44	.019	.042	.093	.123	9.5
3006-028-28-2-C-CCC-S	28	41/44	.015	.038	.086	.116	8.2
3006-028-29-2-C-CCC-S	29	51/46	.014	.030	.071	.099	6.2
3006-028-30-2-C-CCC-S	30	41/46	.012	.028	.067	.095	5.7
THREE CONDUCTOR							
3006-028-20-3-C-CCC-S	20	105/40	.039	.064	.152	.192	26.7
3006-028-22-3-C-CCC-S	22	65/40	.031	.056	.135	.165	19.0
3006-028-24-3-C-CCC-S	24	41/40	.023	.047	.115	.145	14.4
3006-028-26-3-C-CCC-S	26	66/44	.019	.042	.104	.134	11.9
3006-028-28-3-C-CCC-S	28	41/44	.015	.038	.096	.126	9.9
3006-028-29-3-C-CCC-S	29	51/46	.014	.030	.078	.108	7.6
3006-028-30-3-C-CCC-S	30	41/46	.012	.028	.074	.104	7.0
FOUR CONDUCTOR							
3006-028-20-4-C-CCC-S	20	105/40	.039	.064	.168	.212	33.9
3006-028-22-4-C-CCC-S	22	65/40	.031	.056	.149	.189	25.3
3006-028-24-4-C-CCC-S	24	41/40	.023	.047	.127	.157	17.8
3006-028-26-4-C-CCC-S	26	66/44	.019	.042	.115	.145	14.4
3006-028-28-4-C-CCC-S	28	41/44	.015	.038	.105	.135	12.0
3006-028-29-4-C-CCC-S	29	51/46	.014	.030	.086	.116	9.1
3006-028-30-4-C-CCC-S	30	41/46	.012	.028	.081	.111	8.4
FIVE CONDUCTOR							
3006-028-20-5-C-CCC-S	20	105/40	.039	.064	.186	.230	40.4
3006-028-22-5-C-CCC-S	22	65/40	.031	.056	.165	.209	30.6
3006-028-24-5-C-CCC-S	24	41/40	.023	.047	.141	.181	22.5
3006-028-26-5-C-CCC-S	26	66/44	.019	.042	.127	.157	16.8
3006-028-28-5-C-CCC-S	28	41/44	.015	.038	.116	.146	13.9
3006-028-29-5-C-CCC-S	29	51/46	.014	.030	.095	.125	10.5
3006-028-30-5-C-CCC-S	30	41/46	.012	.028	.089	.119	9.6
SIX CONDUCTOR							
3006-028-20-6-C-CCC-S	20	105/40	.039	.064	.206	.256	48.2
3006-028-22-6-C-CCC-S	22	65/40	.031	.056	.182	.226	35.3
3006-028-24-6-C-CCC-S	24	41/40	.023	.047	.155	.199	26.6
3006-028-26-6-C-CCC-S	26	66/44	.019	.042	.140	.180	20.9
3006-028-28-6-C-CCC-S	28	41/44	.015	.038	.128	.158	15.9
3006-028-29-6-C-CCC-S	29	51/46	.014	.030	.104	.134	11.9
3006-028-30-6-C-CCC-S	30	41/46	.012	.028	.098	.128	10.8

NOTE 1:

Data based on 85% braid shield coverage. Other shield coverages and types are available.

NOTE 2:

Additional AWG sizes and conductor counts available.

NOTE 3:

See How to Order on the inside of the section tab for further information.

SiliFlex Wire & Cable

SILICONE/FEP

SILICONE INSULATED, SHIELDED AND FEP JACKETED CABLES

PART NUMBER See How to Order Page for Information	AWG Size	Strands No./Size	Uninsulated Conductor Diameter	Insulated Conductor Diameter	Diameter Over Shield (Nominal)	Overall Diameter (Nominal)	Weight (lbs./M Ft.)
ONE CONDUCTOR							
3006-026-20-1-C-CCC-S	20	105/40	.039	.064	.078	.098	10.3
3006-026-22-1-C-CCC-S	22	65/40	.031	.056	.070	.086	7.6
3006-026-24-1-C-CCC-S	24	41/40	.023	.047	.061	.077	6.0
3006-026-26-1-C-CCC-S	26	66/44	.019	.042	.056	.072	5.0
3006-026-28-1-C-CCC-S	28	41/44	.015	.038	.052	.062	3.7
3006-026-29-1-C-CCC-S	29	51/46	.014	.030	.044	.054	2.9
3006-026-30-1-C-CCC-S	30	41/46	.012	.028	.042	.052	2.7
TWO CONDUCTOR							
3006-026-20-2-C-CCC-S	20	105/40	.039	.064	.135	.159	20.7
3006-026-22-2-C-CCC-S	22	65/40	.031	.056	.120	.144	15.6
3006-026-24-2-C-CCC-S	24	41/40	.023	.047	.103	.127	12.5
3006-026-26-2-C-CCC-S	26	66/44	.019	.042	.093	.113	9.7
3006-026-28-2-C-CCC-S	28	41/44	.015	.038	.086	.106	8.3
3006-026-29-2-C-CCC-S	29	51/46	.014	.030	.071	.091	6.4
3006-026-30-2-C-CCC-S	30	41/46	.012	.028	.067	.087	6.0
THREE CONDUCTOR							
3006-026-20-3-C-CCC-S	20	105/40	.039	.064	.152	.182	28.1
3006-026-22-3-C-CCC-S	22	65/40	.031	.056	.135	.159	20.0
3006-026-24-3-C-CCC-S	24	41/40	.023	.047	.115	.139	15.5
3006-026-26-3-C-CCC-S	26	66/44	.019	.042	.104	.128	12.9
3006-026-28-3-C-CCC-S	28	41/44	.015	.038	.096	.120	10.8
3006-026-29-3-C-CCC-S	29	51/46	.014	.030	.078	.098	7.8
3006-026-30-3-C-CCC-S	30	41/46	.012	.028	.074	.094	7.1
FOUR CONDUCTOR							
3006-026-20-4-C-CCC-S	20	105/40	.039	.064	.168	.199	34.6
3006-026-22-4-C-CCC-S	22	65/40	.031	.056	.149	.179	26.6
3006-026-24-4-C-CCC-S	24	41/40	.023	.047	.127	.151	18.9
3006-026-26-4-C-CCC-S	26	66/44	.019	.042	.115	.139	15.4
3006-026-28-4-C-CCC-S	28	41/44	.015	.038	.105	.130	12.9
3006-026-29-4-C-CCC-S	29	51/46	.014	.030	.086	.106	9.3
3006-026-30-4-C-CCC-S	30	41/46	.012	.028	.081	.101	8.5
FIVE CONDUCTOR							
3006-026-20-5-C-CCC-S	20	105/40	.039	.064	.186	.216	41.2
3006-026-22-5-C-CCC-S	22	65/40	.031	.056	.165	.195	31.3
3006-026-24-5-C-CCC-S	24	41/40	.023	.047	.141	.165	22.2
3006-026-26-5-C-CCC-S	26	66/44	.019	.042	.127	.151	18.0
3006-026-28-5-C-CCC-S	28	41/44	.015	.038	.116	.140	15.0
3006-026-29-5-C-CCC-S	29	51/46	.014	.030	.095	.119	11.4
3006-026-30-5-C-CCC-S	30	41/46	.012	.028	.089	.109	9.7
SIX CONDUCTOR							
3006-026-20-6-C-CCC-S	20	105/40	.039	.064	.206	.242	49.9
3006-026-22-6-C-CCC-S	22	65/40	.031	.056	.182	.212	36.1
3006-026-24-6-C-CCC-S	24	41/40	.023	.047	.155	.185	27.2
3006-026-26-6-C-CCC-S	26	66/44	.019	.042	.140	.170	22.1
3006-026-28-6-C-CCC-S	28	41/44	.015	.038	.128	.152	17.0
3006-026-29-6-C-CCC-S	29	51/46	.014	.030	.104	.128	12.9
3006-026-30-6-C-CCC-S	30	41/46	.012	.028	.098	.122	11.7

NOTE 1:

Data based on 85% braid shield coverage. Other shield coverages and types are available.

NOTE 2:

Additional AWG sizes and conductor counts available.

NOTE 3:

See How to Order on the inside of the section tab for further information.

SiliFlex Wire & Cable

SILICONE/TPE

SILICONE INSULATED, SHIELDED AND TPE JACKETED CABLES

PART NUMBER See How to Order Page for Information	AWG Size	Strands No./Size	Uninsulated Conductor Diameter	Insulated Conductor Diameter	Diameter Over Shield (Nominal)	Overall Diameter (Nominal)	Weight (lbs./M Ft.)
ONE CONDUCTOR							
3006-034-20-1-C-CCC-S	20	105/40	.039	.064	.078	.098	10.3
3006-034-22-1-C-CCC-S	22	65/40	.031	.056	.070	.086	7.6
3006-034-24-1-C-CCC-S	24	41/40	.023	.047	.061	.077	6.0
3006-034-26-1-C-CCC-S	26	66/44	.019	.042	.056	.072	5.0
3006-034-28-1-C-CCC-S	28	41/44	.015	.038	.052	.062	3.7
3006-034-29-1-C-CCC-S	29	51/46	.014	.030	.044	.054	2.9
3006-034-30-1-C-CCC-S	30	41/46	.012	.028	.042	.052	2.7
TWO CONDUCTOR							
3006-034-20-2-C-CCC-S	20	105/40	.039	.064	.135	.159	20.7
3006-034-22-2-C-CCC-S	22	65/40	.031	.056	.120	.144	15.6
3006-034-24-2-C-CCC-S	24	41/40	.023	.047	.103	.127	12.5
3006-034-26-2-C-CCC-S	26	66/44	.019	.042	.093	.113	9.7
3006-034-28-2-C-CCC-S	28	41/44	.015	.038	.086	.106	8.3
3006-034-29-2-C-CCC-S	29	51/46	.014	.030	.071	.091	6.4
3006-034-30-2-C-CCC-S	30	41/46	.012	.028	.067	.087	6.0
THREE CONDUCTOR							
3006-034-20-3-C-CCC-S	20	105/40	.039	.064	.152	.182	28.1
3006-034-22-3-C-CCC-S	22	65/40	.031	.056	.135	.159	20.0
3006-034-24-3-C-CCC-S	24	41/40	.023	.047	.115	.139	15.5
3006-034-26-3-C-CCC-S	26	66/44	.019	.042	.104	.128	12.9
3006-034-28-3-C-CCC-S	28	41/44	.015	.038	.096	.120	10.8
3006-034-29-3-C-CCC-S	29	51/46	.014	.030	.078	.098	7.8
3006-034-30-3-C-CCC-S	30	41/46	.012	.028	.074	.094	7.1
FOUR CONDUCTOR							
3006-034-20-4-C-CCC-S	20	105/40	.039	.064	.168	.199	34.6
3006-034-22-4-C-CCC-S	22	65/40	.031	.056	.149	.179	26.6
3006-034-24-4-C-CCC-S	24	41/40	.023	.047	.127	.151	18.9
3006-034-26-4-C-CCC-S	26	66/44	.019	.042	.115	.139	15.4
3006-034-28-4-C-CCC-S	28	41/44	.015	.038	.105	.130	12.9
3006-034-29-4-C-CCC-S	29	51/46	.014	.030	.086	.106	9.3
3006-034-30-4-C-CCC-S	30	41/46	.012	.028	.081	.101	8.5
FIVE CONDUCTOR							
3006-034-20-5-C-CCC-S	20	105/40	.039	.064	.186	.216	41.2
3006-034-22-5-C-CCC-S	22	65/40	.031	.056	.165	.195	31.3
3006-034-24-5-C-CCC-S	24	41/40	.023	.047	.141	.165	22.2
3006-034-26-5-C-CCC-S	26	66/44	.019	.042	.127	.151	18.0
3006-034-28-5-C-CCC-S	28	41/44	.015	.038	.116	.140	15.0
3006-034-29-5-C-CCC-S	29	51/46	.014	.030	.095	.119	11.4
3006-034-30-5-C-CCC-S	30	41/46	.012	.028	.089	.109	9.7
SIX CONDUCTOR							
3006-034-20-6-C-CCC-S	20	105/40	.039	.064	.206	.242	49.9
3006-034-22-6-C-CCC-S	22	65/40	.031	.056	.182	.212	36.1
3006-034-24-6-C-CCC-S	24	41/40	.023	.047	.155	.185	27.2
3006-034-26-6-C-CCC-S	26	66/44	.019	.042	.140	.170	22.1
3006-034-28-6-C-CCC-S	28	41/44	.015	.038	.128	.152	17.0
3006-034-29-6-C-CCC-S	29	51/46	.014	.030	.104	.128	12.9
3006-034-30-6-C-CCC-S	30	41/46	.012	.028	.098	.122	11.7

NOTE 1:
Data based on 85% braid
shield coverage. Other shield
coverages and types are available.

NOTE 2:
Additional AWG sizes and
conductor counts available.

NOTE 3:
See How to Order on the inside of the section tab.
For further information.

SiliFlex Ribbon Cable

SiliFlex Ribbon Cable

FEATURES:

- Extremely flexible
- Forms easily
- Compatible with most connectors
- Components separate readily
- Easily terminated

GENERAL DESCRIPTION

SiliFlex Ribbon Cable is produced from high strand round copper conductors that are individually insulated with Silicone rubber. They are then laid parallel and bonded in an extremely flexible flat form. With this flat configuration, the mechanical load applied to the cable is distributed over the total width of the cable. This allows for improved heat dissipation and greater flex life performance over traditional round cables. It is not necessary to separate the ribbon wires prior to termination but if this is desired, the components can be separated and will still maintain the electrical, physical and mechanical features of the discrete components.

As with any round wire, conventional braided shielding or served shield can be incorporated into this flat configuration. Many construction variations are available and it is possible to select a cable with a mixture of gauge sizes and types; such as shielded and unshielded wires and shielded and unshielded pairs and triads.

APPLICATIONS

- Computer hardware hook-up • Aircraft • Industrial Automation
- Where flexibility and high flex life are required • Tested at several million flexes without breakage • High temp resistant (150-200 °C)

CAPABILITIES

- Conductor size: 20 AWG - 40 AWG • Diameter of component: 0.200 inch max.
- Cable width: 4.0 inches max. • Number of conductors: 50

COLOR AVAILABILITY

White is the preferred color, but the ten basic colors per MIL-STD-681 are available and can be repeated throughout the cable as required.

MILITARY APPROVAL

This cable is manufactured in accordance with, and can be certified to meet, the applicable requirements of MIL-W-16878, Type F.

HOW TO ORDER SILIFLEX RIBBON CABLE

SRC SILIFLEX RIBBON CABLE	-N NUMBER OF CONDUCTORS	-AAAAA CONDUCTOR SIZE First two digits denote AWG, last three denotes number of strands	-C COLORS Per EIA color code	-CCC CONDUCTOR TYPE Available in a full range of bare, plated and alloy conductors
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