

ex Wire & Cab

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													
	Bare Copper Conductor					Finished Wire							
Part Number	AWG SIZE	(No. of Strand Strand Size)	Strand ds/Diameter (inches)	Conductor Diameter (Nominal)	Conductor A (CM) (Nominal)	reaConductor Resistance (OHMS/1000' N	Current Carr Capacity @ & O (4)pproxima) Diameter		Stiffness) Comparisc ite(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

