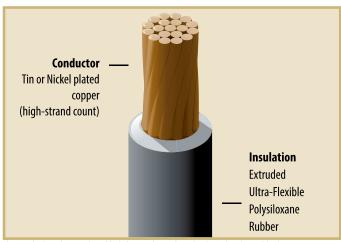


APPLICATION

SurpreFlex™ cables are designed specifically for Armored Vehicle applications where ultra-flexiblity, cold weather durability, and chemical resistance are required.

SurpreFlex™ Ultra-Flexible Power Distribution

AD961 Series



The standard insulation color is black, but can be made with other colors (See Table II)

CONDUCTOR

Soft annealed Tin or Nickel plated copper, high-strand count as listed in the below table.

INSULATION

Extruded Ultra-Flexible Polysiloxane Rubber

TYPICAL PROPERTIES

Blocking: 260°C

Heat Aging: 260°C for 7 hours

Cold Bend: -60°C

Tensile Strength: 1000 psi min Covering Elongation: 300% min Flammability: 30s (max) 3" (max); No

flaming of tissue paper

Fluid Immersion: In accordance to

MIL-STD-810G

Adhesion: Compatible with adhesives per MIL-A-46146, Group 1 or 2, Type 1 Halogen Content: Halogen-Free Shrinkage: .125" max @ 260°C

Smoke: 260°C RoHS Compliant: Yes

AD961-2 SurpreF	ex .093" nom. wall, 3500VAC	AD961-2	Т	D	- 0
Base Number	AD961-2				
Plating	T = Tin Plated (150°C) N = Nickel Plated (260°C)				
AWG Size	D, E, F, G, H, I, J, K, L (See Table I)				
Color	See Table II				

AD961-3 SurpreFle	ex .062" nom. wall, 3000VAC	AD961-3	Т	D	- 0
Base Number	AD961-3				
Plating	T = Tin Plated (150°C) N = Nickel Plated (260°C)				
AWG Size	A, B, C, D, E, F, G (See Table I)				
Color	See Table II				

Table I: Size, Weight, Diameters											
Code AWG		Strand Count	Conductor Diameter	Resistance @ 20°C (Ω/kft)		Ampacity (AMPS) @ 40°C Ambient		Cable Weight lbs/1000 ft (nom.)		Cable Diameter Inch (nom.)	
3120	36 AWG	Inch (nom.)	Tin	Nickel	Tin	Nickel	AD961-2	AD961-3	AD961-2	AD961-3	
Α	12	259	.097	1.86	1.85	68	78	-	36	-	.220
В	10	413	.125	1.17	1.16	90	107	-	51	-	.250
С	8	665	.160	.725	.719	124	142	-	75	-	.285
D	6	1045	.210	.460	.455	165	205	130	110	.395	.335
Е	4	1666	.280	.300	.298	220	278	190	165	.465	.405
F	2	2646	.342	.190	.188	293	381	275	248	.515	.455
G	1/0	4214	.430	.119	.118	399	532	410	380	.615	.555
Н	2/0	5292	.460	.095	.094	467	591	500	-	.645	-
1	3/0	6783	.550	.075	.074	546	708	630	-	.735	-
J	4/0	8512	.615	.060	.059	629	830	775	-	.800	-
К	250 MCM	9975	.665	.048	.048	705	910	900	-	.850	-
L	450 MCM	17955	.890	.026	.027	1020	1320	1550	-	1.075	-

Table II: Color Code						
0	Black					
1	Brown					
2	Red					
3	Orange					
4	Yellow					
5	Green					
6	Blue					
7	Violet					
8	Gray					
9	White					
Cons	Consult factory for specific Fed Std colors					

NOTES:

- 1. Bend Radius is 3x outer diameter
- 2. Cable will be marked with "Marmon Aerospace & Defense", AWG Size, Part Number, CAGE Code 61123
- 3. AD961-4 offering smaller AWG sizes at 1000VAC is available upon request

