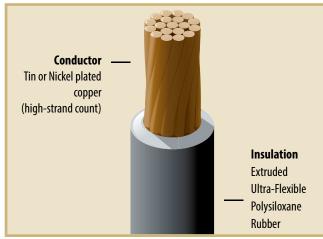
APPLICATION

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 w

AD961-2 SurpreFlex .093" nom. wall, 3500VAC Base Number AD961-2 AWG Size D, E, F, G, H, I, J, K, L (See Table I)		AD961-2	D	N	- 0	AD961-3 SurpreFle	AD961-3	A	т	- 0	
Base Number	AD961-2					Base Number	AD961-3				
AWG Size	D, E, F, G, H, I, J, K, L (See Table I)					AWG Size	A, B, C, D, E, F (See Table I)				
Plating	T = Tin Plated (150°C) N = Nickel Plated (260°C)					Plating	T = Tin Plated (150°C) N = Nickel Plated (260°C)				
Color	See Table II					Color	See Table II				

	Table I: Size, Weight, Diameters										
Code AWG Size		Strand Count	Conductor Diameter	Resistance @ 20°C (Ω/kft)		Ampacity (AMPS) @ 40°C Ambient		Cable Weight lbs/1000 ft (nom.)		Cable Diameter Inch (nom.)	
	5120	36 AWG	Inch (nom.)	Tin	Nickel	Tin	Nickel	AD961-2	AD961-3	AD961-2	AD961-3
А	12	259	.099	1.86	1.85	68	78	-	40	-	.233
В	10	413	.126	1.17	1.16	90	107	-	56	-	.250
С	8	665	.159	.725	.719	124	142	-	81	-	.283
D	6	1050	.200	.460	.455	165	205	138	118	.386	.324
E	4	1666	.271	.300	.298	220	278	207	183	.457	.395
F	2	2646	.342	.190	.188	293	381	305	276	.528	.466
G	1/0	4214	.431	.119	.118	399	532	456	-	.617	-
н	2/0	5292	.483	.095	.094	467	591	558	-	.649	-
1	3/0	6783	.547	.075	.074	546	708	704	-	.733	-
J	4/0	8512	.613	.060	.059	629	830	867	-	.799	-
к	250 MCM	9975	.663	.048	.048	705	910	1003	-	.849	-
L	450 MCM	17955	.890	.026	.027	1020	1320	1740	-	1.076	_

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	ult 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



Tel: 866.303.9473 / www.marmon-ad.com

with other colors (See Tab	Smoke: 260°C Spark Test: 10,000 Vrms RoHS Compliant: Yes							
AD961-3 SurpreFle	ex .062" nom. wall, 30	DOVAC	AD961-3	А	Т	- 0		
Base Number	AD961-3							
AWG Size	A, B, C, D, E, F (See	Table I)						
Plating	T = Tin Plated (1 N = Nickel Plated	,						

copper, high-strand count as listed in the below table.

Soft annealed Tin or Nickel plated

CONDUCTOR

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