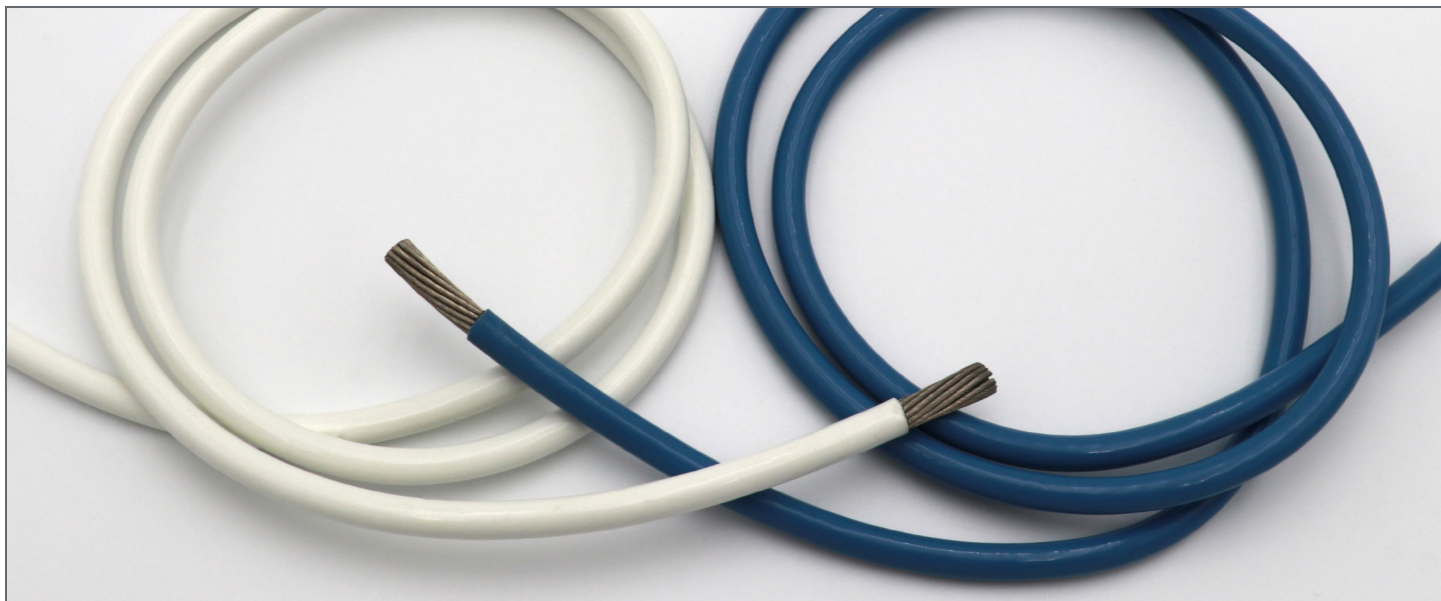


InfiniFLEX™ High-Voltage Cables



INTRODUCTION

Amphenol CIT understands that power distribution cables present persistent challenges for harness designers and installers. Traditional power cables are often constructed with stiff materials that are difficult to route in compact assemblies, while many alternatives designed to improve flexibility can introduce termination challenges. To address these requirements, ACIT offers the InfiniFLEX™ family of standard- and high-voltage cables for military and defense, aerospace, and industrial applications:

InfiniFLEX Aerospace
1000 V

InfiniFLEX Feeders
2000 V & 3000 V

InfiniFLEX Ultra Flex
1000 V

These high-flex constructions support tight bend radii and efficient routing in space-constrained assemblies. Optimized conductor strand geometry enables easier termination and repeatable crimpability, while continuous operating temperatures up to 200 °C ensure reliable performance in demanding environments. Designed for compatibility with a broad range of Amphenol and industry-standard contacts and connectors, these cables deliver the flexibility, durability, and ease of installation required for today's advanced platforms.

FEATURES	BENEFITS
High-voltage performance (1000 - 3000 V)	• Corona resistant
Minimum 3x bend radius	• Allows routing around tight bends & restricted areas
UV laser-markable	• Easily identifiable for end users & customers
Excellent flammability & smoke-generation properties	• Key safety factors for end users & customers
Temperature rating of 200 °C	• High temperature rating for aerospace & industrial application

JACKET COLORS

- » White
- » Red
- » Black
- » International orange
- » Green
- » Blue

CONDUCTOR MATERIALS

- » Nickel-plated copper
- » Tin-plated copper
- » Silver-plated copper

InfiniFLEX™ High-Voltage Cables

INFINIFLEX AEROSPACE (1000 V)

Our InfiniFLEX Aerospace cables feature weight-optimized flexible copper strand cable meets the requirements of AS29606 and is designed to terminate with MIL-SPEC contacts and terminal lugs. Compared to other InfiniFLEX variants, InfiniFLEX Aerospace cables offer greater rigidity, reducing chafing in high-vibration environments. This increased rigidity also reduces the number of cable clamps required for support, resulting in additional weight savings.

InfiniFLEX Aerospace PNs	AWG	Const.	Conductor OD (in.)	Conductor Weight (lbs/1000 ft)	Resistance @ 20 °C (Ω/1000 ft)	WALL	Cable OD (in.)			Wire Weight (lbs/1000 ft)
			Nom	Nom	Max	Nom	Min	Nom	Max	Nom
SIL-0010-200-20N	20	19/32	0.0374	4	9.730	0.028	0.091	0.093	0.095	6
SIL-0010-200-18N	18	19/30	0.0465	6	6.100	0.028	0.101	0.103	0.105	9
SIL-0010-200-16N	16	19/29	0.0525	7	4.760	0.028	0.106	0.109	0.112	11
SIL-0010-200-14N	14	19/27	0.0658	11	2.970	0.028	0.119	0.122	0.125	15
SIL-0010-200-12N	12	37/28	0.0847	18	1.970	0.028	0.138	0.141	0.144	23
SIL-0010-200-10N	10	37/26	0.1070	28	1.240	0.028	0.162	0.163	0.164	34
SIL-0010-200-8N	8	19 x 7/29	0.160	52	0.688	0.028	0.214	0.216	0.219	60
SIL-0010-200-6N	6	19 x 7/27	0.203	82	0.436	0.028	0.255	0.259	0.261	92
SIL-0010-200-4N	4	19 x 7/25	0.258	133	0.274	0.028	0.310	0.314	0.317	146
SIL-0010-200-2N	2	19 x 35/30	0.330	211	0.177	0.028	0.381	0.386	0.390	227
SIL-0010-200-1N	1	19 x 43/30	0.365	258	0.139	0.028	0.416	0.421	0.427	276
SIL-0010-200-1/0N	1/0	19 x 55/30	0.415	332	0.113	0.028	0.463	0.471	0.476	352
SIL-0010-200-2/0N	2/0	19 x 70/30	0.467	420	0.089	0.028	0.515	0.523	0.529	442
SIL-0010-200-3/0N	3/0	37 x 45/30	0.523	529	0.071	0.028	0.572	0.579	0.587	554
SIL-0010-200-4/0N	4/0	37 x 57/30	0.585	670	0.056	0.028	0.636	0.641	0.653	698

InfiniFLEX™ High-Voltage Cables

INFINIFLEX FEEDERS (2000 V)

Amphenol CIT's 2000 V InfiniFLEX cables can be terminated with MIL-SPEC contacts and terminal lugs, as well as industry-standard flex lugs from Burndy, ABB (Thomas & Betts), and Panduit. Their exceptional flexibility improves routability, helping reduce installation time, while their 200 °C temperature rating ensures reliable performance in demanding environments. The cable's advanced strand design also allows installers to strip the insulation cleanly without conductor strands splaying, making terminations faster, easier, and more reliable.

InfiniFLEX Feeders (2000 V) PNs	AWG	Const.	Conductor OD (in.)	Conductor Weight (lbs/1000 ft)	Resistance @ 20 °C (Ω/1000 ft)	WALL	Cable OD (in.)			Wire Weight (lbs/1000 ft)
			Nom	Nom	Max		Min	Nom	Max	Nom
SIL-0020-200-20N	20	19/32	0.0374	4	9.730	0.032	0.099	0.101	0.103	7
SIL-0020-200-18N	18	19/30	0.0465	6	6.100	0.032	0.109	0.111	0.113	10
SIL-0020-200-16N	16	19/29	0.0525	7	4.760	0.032	0.114	0.117	0.120	11
SIL-0020-200-14N	14	19/27	0.0658	11	2.970	0.032	0.127	0.130	0.133	16
SIL-0020-200-12N	12	37/28	0.0847	18	1.970	0.032	0.146	0.149	0.152	24
SIL-0020-200-10N	10	37/26	0.1070	28	1.240	0.032	0.168	0.171	0.174	35
SIL-0020-200-8N-FLX	8	19x 22/34	0.164	52	0.770	0.032	0.224	0.228	0.232	62
SIL-0020-200-6N-FLX	6	19x35/34	0.203	79	0.500	0.032	0.262	0.267	0.272	91
SIL-0020-200-4N-FLX	4	19x55/34	0.259	129	0.308	0.032	0.317	0.323	0.329	144
SIL-0020-200-2N-FLX	2	19x55/32	0.327	205	0.188	0.032	0.385	0.391	0.397	224
SIL-0020-200-1N-FLX	1	19x70/32	0.369	261	0.147	0.032	0.426	0.433	0.440	282
SIL-0020-200-1/0N-FLX	1/0	37x45/32	0.414	327	0.118	0.032	0.470	0.478	0.486	350
SIL-0020-200-2/0N-FLX	2/0	37x57/32	0.466	414	0.093	0.032	0.521	0.530	0.538	439
SIL-0020-200-3/0N-FLX	3/0	19x7x20/32	0.545	505	0.075	0.032	0.599	0.609	0.620	535
SIL-0020-200-4/0N-FLX	4/0	19x7x25/32	0.609	631	0.060	0.032	0.662	0.673	0.685	664
SIL-0020-200-8N-UFLX	8	19x35/36	0.165	55	0.700	0.032	0.221	0.229	0.237	65
SIL-0020-200-6N-UFLX	6	19x55/36	0.200	79	0.480	0.032	0.256	0.264	0.272	91
SIL-0020-200-4N-UFLX	4	37x45/36	0.275	140	0.320	0.032	0.329	0.339	0.349	156
SIL-0020-200-2N-UFLX	2	37x45/34	0.335	208	0.189	0.032	0.389	0.399	0.409	227
SIL-0020-200-1N-UFLX	1	37x57/34	0.385	268	0.160	0.032	0.434	0.449	0.464	289
SIL-0020-200-1/0N-UFLX	1/0	19x7x20/34	0.450	339	0.130	0.032	0.499	0.514	0.529	364
SIL-0020-200-2/0N-UFLX	2/0	19x7x25/34	0.500	428	0.100	0.032	0.549	0.564	0.579	455
SIL-0020-200-3/0N-UFLX	3/0	19x7x31/34	0.568	496	0.072	0.032	0.604	0.632	0.639	527
SIL-0020-200-4/0N-UFLX	4/0	19x7x40/34	0.635	657	0.056	0.032	0.679	0.699	0.719	691

InfiniFLEX™ High-Voltage Cables

INFINIFLEX FEEDERS (3000 V)

Amphenol CIT's 3000 V InfiniFLEX cables can be terminated with MIL-SPEC contacts and terminal lugs, as well as industry-standard flex lugs from Burndy, ABB (Thomas & Betts), and Panduit. Their exceptional flexibility improves routability, helping reduce installation time, while their 200 °C temperature rating ensures reliable performance in demanding environments. The cable's advanced strand design also allows installers to strip the insulation cleanly without conductor strands splaying, making terminations faster, easier, and more reliable.

InfiniFLEX Feeders (3000 V) PNs	AWG	Const.	Conductor OD (in.)	Conductor Weight (lbs/1000 ft)	Resistance @ 20 °C (Ω/1000 ft)	WALL	Cable OD (in.)			Wire Weight (lbs/1000 ft)
			Nom	Nom	Max	Nom	Min	Nom	Max	Nom
SIL-0030-200-20N	20	19/32	0.0374	4	9.730	0.062	0.159	0.161	0.163	13
SIL-0030-200-18N	18	19/30	0.0465	6	6.100	0.062	0.169	0.171	0.173	16
SIL-0030-200-16N	16	19/29	0.0525	7	4.760	0.062	0.174	0.177	0.180	18
SIL-0030-200-14N	14	19/27	0.0658	11	2.970	0.062	0.187	0.190	0.193	24
SIL-0030-200-12N	12	37/28	0.0847	18	1.970	0.062	0.206	0.209	0.212	32
SIL-0030-200-10N	10	37/26	0.1070	28	1.240	0.062	0.228	0.231	0.234	45
SIL-0030-200-8N-FLX	8	19x 22/34	0.164	52	0.770	0.062	0.284	0.288	0.292	74
SIL-0030-200-6N-FLX	6	19x35/34	0.203	79	0.500	0.062	0.322	0.327	0.332	106
SIL-0030-200-4N-FLX	4	19x55/34	0.259	129	0.308	0.062	0.377	0.383	0.389	161
SIL-0030-200-2N-FLX	2	19x55/32	0.327	205	0.188	0.062	0.445	0.451	0.457	244
SIL-0030-200-1N-FLX	1	19x70/32	0.369	261	0.147	0.062	0.486	0.493	0.500	304
SIL-0030-200-1/0N-FLX	1/0	37x45/32	0.414	327	0.118	0.062	0.530	0.538	0.546	374
SIL-0030-200-2/0N-FLX	2/0	37x57/32	0.466	414	0.093	0.062	0.581	0.590	0.598	466
SIL-0030-200-3/0N-FLX	3/0	19x7x20/32	0.545	505	0.075	0.062	0.659	0.669	0.680	566
SIL-0030-200-4/0N-FLX	4/0	19x7x25/32	0.609	631	0.060	0.062	0.722	0.733	0.745	698
SIL-0030-200-8N-UFLX	8	19x35/36	0.165	55	0.700	0.062	0.281	0.289	0.297	77
SIL-0030-200-6N-UFLX	6	19x55/36	0.200	79	0.480	0.062	0.316	0.324	0.332	105
SIL-0030-200-4N-UFLX	4	37x45/36	0.275	140	0.320	0.062	0.389	0.399	0.409	174
SIL-0030-200-2N-UFLX	2	37x45/34	0.335	208	0.189	0.062	0.449	0.459	0.469	248
SIL-0030-200-1N-UFLX	1	37x57/34	0.385	268	0.160	0.062	0.494	0.509	0.524	313
SIL-0030-200-1/0N-UFLX	1/0	19x7x20/34	0.450	339	0.130	0.062	0.559	0.574	0.589	390
SIL-0030-200-2/0N-UFLX	2/0	19x7x25/34	0.500	428	0.100	0.062	0.609	0.624	0.639	484
SIL-0030-200-3/0N-UFLX	3/0	19x7x31/34	0.568	496	0.072	0.062	0.664	0.692	0.699	559
SIL-0030-200-4/0N-UFLX	4/0	19x7x40/34	0.635	657	0.056	0.062	0.739	0.759	0.779	726

InfiniFLEX™ High-Voltage Cables

ULTRA FLEX (1000 V)

Our most flexible power cable to date, the InfiniFLEX Ultra Flex cable, is engineered for dynamic applications such as tilt rotors and turrets. Its enhanced conductor strand fatigue life delivers exceptional durability, while increased flexibility improves routability and reduces installation time. The advanced strand design also minimizes strand splay after insulation stripping, making terminations faster, easier, and more reliable. Our Ultra Flex cables are compatible with Amphenol HV38999, Raptor, ACIT, and H-PAC connectors.

InfiniFLEX Ultra Flex PNs	AWG	Const.	Conductor OD (in.)	Conductor Weight (lbs/1000 ft)	Resistance @ 20 °C (Ω/1000 ft)	WALL	Cable OD (in.)			Wire Weight (lbs/1000 ft)
			Nom	Nom	Max	Nom	Min	Nom	Max	Nom
SIL-0010-200-20N	20	19/32	0.0374	4	9.730	0.028	0.091	0.093	0.095	6
SIL-0010-200-18N	18	19/30	0.0465	6	6.100	0.028	0.101	0.103	0.105	9
SIL-0010-200-16N	16	19/29	0.0525	7	4.760	0.028	0.106	0.109	0.112	11
SIL-0010-200-14N	14	19/27	0.0658	11	2.970	0.028	0.119	0.122	0.125	15
SIL-0010-200-12N	12	37/28	0.0847	18	1.970	0.028	0.138	0.141	0.144	23
SIL-0010-200-10N	10	37/26	0.1070	28	1.240	0.028	0.162	0.163	0.164	34
SIL-0010-200-8N-UFLX	8	19x35/36	0.165	55	0.700	0.028	0.213	0.221	0.229	63
SIL-0010-200-6N-UFLX	6	19x55/36	0.200	79	0.480	0.028	0.248	0.256	0.264	89
SIL-0010-200-4N-UFLX	4	37x45/36	0.275	140	0.320	0.028	0.321	0.331	0.341	154
SIL-0010-200-2N-UFLX	2	37x45/34	0.335	208	0.189	0.028	0.381	0.391	0.401	224
SIL-0010-200-1N-UFLX	1	37x57/34	0.385	268	0.160	0.028	0.426	0.441	0.456	287
SIL-0010-200-1/0N-UFLX	1/0	19x7x20/34	0.450	339	0.130	0.028	0.491	0.506	0.521	361
SIL-0010-200-2/0N-UFLX	2/0	19x7x25/34	0.500	428	0.100	0.028	0.541	0.556	0.571	452
SIL-0010-200-3/0N-UFLX	3/0	19x7x31/34	0.568	496	0.072	0.028	0.596	0.624	0.631	523
SIL-0010-200-4/0N-UFLX	4/0	19x7x40/34	0.635	657	0.056	0.028	0.671	0.691	0.711	687