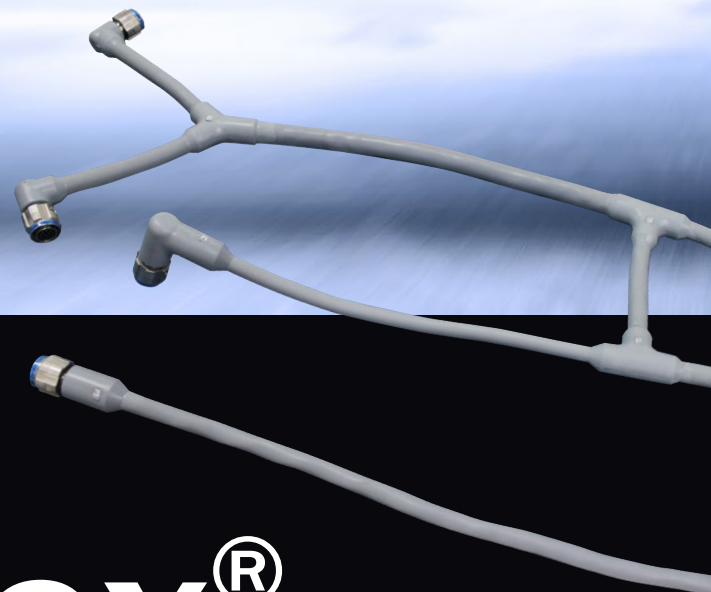
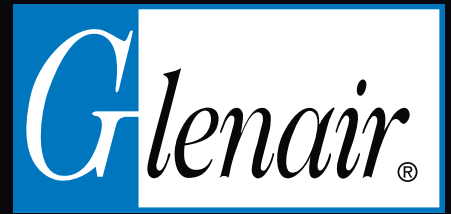


MISSION-CRITICAL
INTERCONNECT
SOLUTIONS



SERIES 96

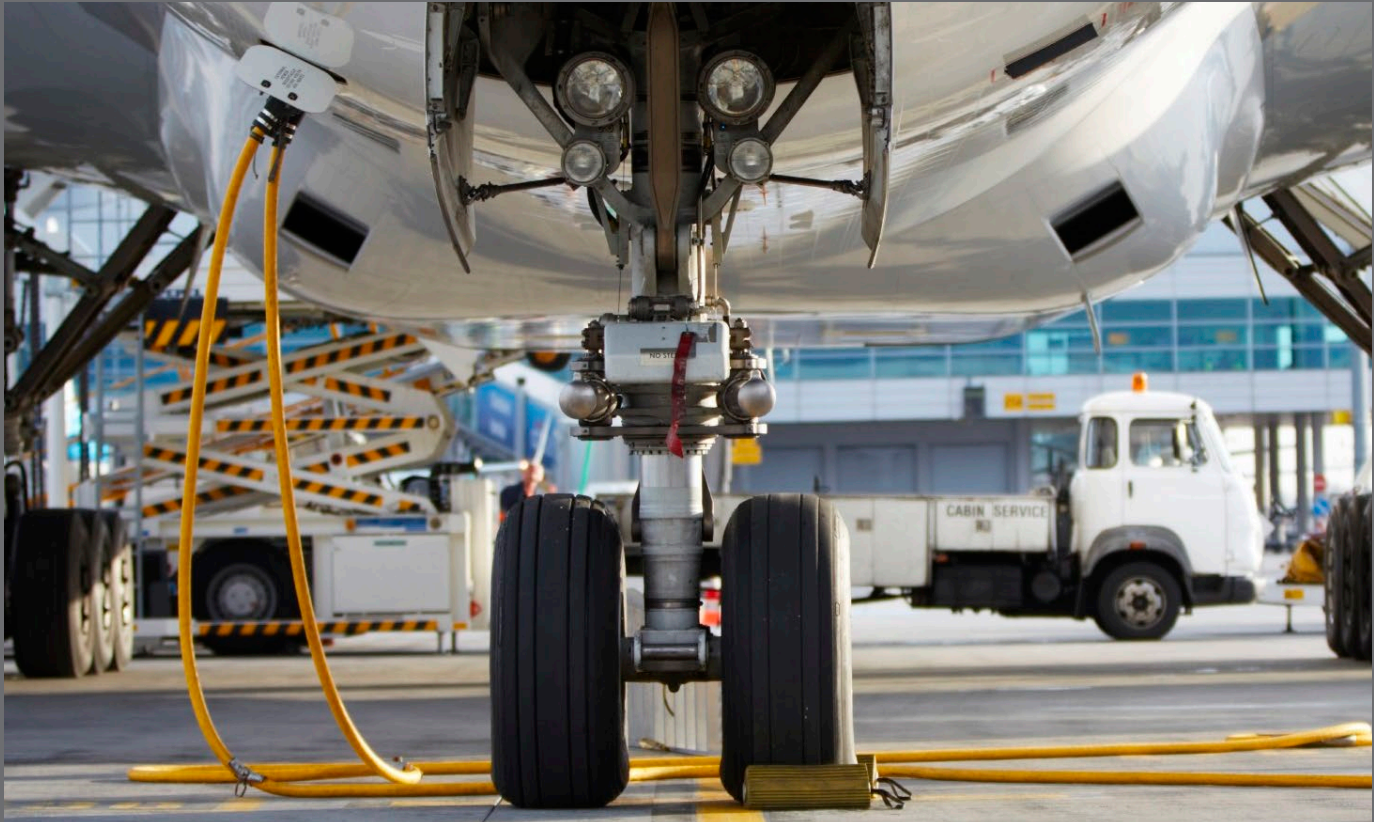
TurboFlex®

Ultra-Flexible, Ultra-Durable Power Distribution Cable

APRIL 2019



Ultra flexible and rugged power distribution cables with Glenair Duralectric™ jacketing



Power distribution cables present a unique challenge to electrical wire interconnect system engineers. Typically fabricated from stiff, non-flexible conductors with extremely large bend radii, such cables are heavy, hard to route, and prone to jacket damage from weathering and abrasion. TurboFlex® power distribution cables are constructed from high strand-count rope lay inner conductors made with tin-, nickel- and silver-plated copper. These highly-flexible conductors, combined with Glenair's high-performance jacketing result in cables ideally suited for applications where flexibility, durability, and weight reduction are required.

Amazingly durable—especially in cold weather—TurboFlex cable is jacketed with Glenair's innovative Duralectric™ insulation compound that provides outstanding resistance to temperature extremes, ozone exposure, caustic chemicals including jet fuel, gamma radiation, and other forms of environmental and mechanical damage. Long life and performance are critical in power distribution applications. TurboFlex, with its flexible conductors and durable jacketing delivers both.

- Ultra-flexible rope lay power cable construction
- Available in a broad range of gages, from 20 AWG to 450 MCM
- Jacketed with ruggedized Duralectric™ insulation
- Low-smoke, zero halogen, and RoHS compliant
- Copper and aluminum conductors available
- New lightweight Duralectric™ L



Ultra-flexible rope lay construction: bend radius is 3X the outer diameter

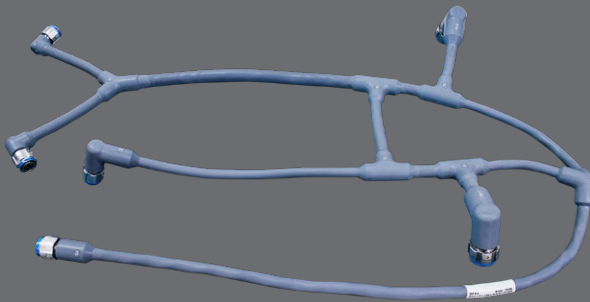


TurboFlex® with Duralectric™ jacketing ideally suited for equipment grounding



Wide range of available sizes— from 16AWG to 450 MCM

TurboFlex® Product Selection Guide			
TurboFlex® Cable Type	Jacket Type and Cable Construction	Part No.	Page No.
TurboFlex® Copper Conductor (standard)	(.125" jacket)	961-001	8
	(.093" jacket)	961-002	9
	(.062" jacket)	961-003	10
	(.032" jacket)	961-004	11
	(2 layer jacket)	961-035	13
	Duraelectric™ D with fabric overbraiding for superior abrasion / temperature protection	961-044	14
	Duraelectric™ D with conductive braided ground shield for high-power applications	961-007	16
	Duraelectric™ D with ground shield and conductive silicone for high voltage / high power	961-056	18
	Duraelectric™ L (lightweight) formula for weight savings and abrasion protection	961-041	20
	Duraelectric™ K for ultra-low temperature flexibility and gamma radiation resistance	961-033	22
Duraelectric™ F for resistance to jet fuels and oils plus low-temperature flexibility	961-051	23	
UL recognized TurboFlex® Standard Copper Conductor	Duraelectric™ D accelerated UV/sunlight, fire, and ozone resistance and broad fluid and caustic chemical resistance	961-065	24
TurboFlex® Aluminum Conductor	Duraelectric™ D (see description above)	961-010	12
	Duraelectric™ L (lightweight) formula for weight savings and abrasion protection	961-042	21



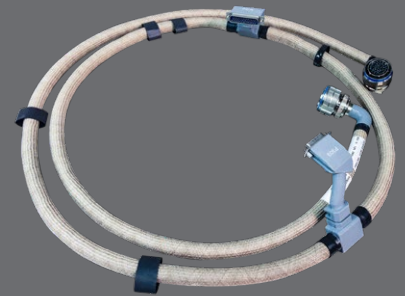
Complex, multibranch TurboFlex® aerospace power cable assembly with lightweight Duraelectric™ L jacketing and overmolding



Point-to-point TurboFlex® power cable assembly with Duraelectric™ D jacketing and overmolding in OSHA safety orange



TurboFlex® power pylon cable assembly with Duraelectric™ D jacketing



Hybrid TurboFlex® power/signal assembly with fire-resistant PTFE-glass overbraid and special Duraelectric™ D overmolding



TurboFlex® Aluminum and Copper comparison tables

COMPARISON OF ALUMINUM AND COPPER WIRE MATERIALS IN TURBOFLEX® CABLES

The tables below provide a comparison of Glenair TurboFlex® wires with copper and aluminum conductors. Reference Glenair drawings 961-004 (copper) and 961-010 (aluminum) and Glenair Test Reports GT-15-189 and RdP 010-15.

Wire Weight by Size			
AWG	Aluminum, lbs/1000 ft 961-010	Copper, lbs/1000 ft 961-004	Aluminum Weight Savings
16	8	14	45%
12	15	29	49%
10	22	44	50%
8	33	67	51%
6	37	101	63%
4	57	162	65%
2	85	252	66%
1/0	129	393	67%

Wire Electrical Properties				
AWG	TurboFlex® Aluminum		TurboFlex® Copper	
	DC Resistance, Ohm/1000 ft	Max Current, Amps	DC Resistance, Ohm/1000 ft	Max Current, Amps
16	6.85	27	4.55	36
14	4.26	36	2.85	54
12	2.80	47	1.85	68
10	1.69	63	1.16	90
8	1.07	83	0.72	124
6	0.67	112	0.46	165
4	0.42	148	0.30	220
2	0.26	197	0.19	293
1/0	0.16	262	0.12	399

Conductor Temperature Increase Above Ambient		
Applied Current, Amps DC	TurboFlex™ Aluminum, 8 AWG	TurboFlex™ Copper, 8 AWG
50	31°C	21°C
100	124°C	75°C
125	198°C	113°C



TurboFlex® Aluminum and Copper comparison tables

Durability Testing of Crimped Contacts on 8 AWG Wire			
Crimp Resistance, Un-aged	TurboFlex™ Aluminum	TurboFlex™ Copper	Requirement
Initial Crimp Resistance at 40 Amps, mΩ	0.047	0.022	3.0 max
After Thermal Cycling, -65°C to 175°C, 500 cycles			
Crimp Tensile Strength after cycling, lbf	261	402	232 min
Crimp Resistance at 40 Amps, mΩ	0.153	0.029	3.0 max
After 1000 hours at 175°C			
Crimp Tensile Strength, lbf	253	388	232 min
Crimp Resistance at 40 Amps, mΩ	0.090	0.033	3.0 max
After 1500 thermal cycles, Ambient to 175°C while energized with 40 Amps DC			
Crimp Tensile Strength, lbf	260	387	232 min
Crimp Resistance at 40 Amps, mΩ	0.164	0.030	3.0 max
After 500 Hours Dynamic Salt Fog in a PowerTrip™ Connector			
Crimp Tensile Strength, lbf	240	410	232 min
Crimp Resistance at 40 Amps, mΩ	0.074	0.030	3.0 max
After Vibration & Shock* in a PowerTrip™ Connector			
Crimp Tensile Strength, lbf	244	421	232 min
Crimp Resistance at 40 Amps, mΩ	0.065	0.025	3.0 max
Test performed using standard PowerTrip gold plated copper contacts (P/N 850-026-8-8-2), crimped without special bushings or processes. *16 Hours random vibration per EIA-364-28F, Condition VI, Letter J (43.92 Grms) and 6 shocks of 300G			

Duraelectric™ D performance specifications

Duraelectric™ D is a high-performance elastomeric material for use as wire insulation, cable jacketing, conduit jacketing, cable/conduit overmolding, and molded boots.

NOTABLE ATTRIBUTES

- **Service Temperature Range: -65°C to 225°C**
- **Fire Resistant and Low Smoke-Zero Halogen (LSZH)**
- **Resistant to common aerospace, military and industrial fluids**

Duraelectric™ D Physical Properties		
Property	Typical Result	Test Method
Hardness, Shore A	60	ASTM D2240
Tensile Strength, psi	1100	ASTM D412
Elongation, %	500	ASTM D412
Tear Strength, Die B, ppi	150	ASTM D624
Low Temperature Impact at -65°C	Pass/No Cracks	ASTM D2137
Accelerated UV/Sunlight Resistance, 53 Year Equivalent Exposure	Pass/Excellent	IEC 60068-2-5
Ozone Resistance	Pass/No Cracks	ASTM D1149
Zero Halogen	Pass	IEC 754-1

Duraelectric™ D Electrical Properties		
Property	Typical Result	Test Method
Dielectric Strength, kV/mm	19	ASTM D419
Comparative Tracking Index, VAC	> 600	ASTM D3638

Duraelectric™ D Fire Resistance Properties	
Property	Typical Result
Flammability	
Oxygen Index, %	45
FAR 25.853, 12 Second Vertical	Pass
FAR 25.853, 60 Degree	Pass
FAR 27.1365 b,c	Pass
BSS7230 Method F2	Pass
IEC60614-1	Pass
EN60695-2-12, 850°C Glow-Wire	Pass
UL1685 FT4/IEEE1202	Pass
Smoke Density	
BSS7238	Pass
NES 711	Pass
EN 60695-2-11	Pass
UL1685 FT4/IEEE1202	Pass
Combustion Toxicity	
BSS7239	Pass
NES 713	Pass
SMP800 C	Pass

Duralectric™ L performance specifications

Duralectric™ L (light) is a high-performance elastomeric material for use as lightweight wire insulation, cable jacketing, conduit jacketing, and cable/conduit overmolding.

NOTABLE ATTRIBUTES

- Service Temperature Range: -65°C to 200°C
- Fire Resistant and Low Smoke-Zero Halogen (LSZH)
- Excellent abrasion resistance
- 30% lighter than original Duralectric™
- 50% lighter than Teflon

Duralectric™ L - Physical Properties		
Property	Typical Result	Test Method
Hardness, Shore A	60	ASTM D2240
Tensile Strength, psi	850	ASTM D412
Elongation, %	300	ASTM D412
Tear Strength, Die B, ppi	125	ASTM D624
Low Temperature Impact at -65°C	Pass/No Cracks	ASTM D2137
Ozone Resistance	Pass/No Cracks	ASTM D518
Zero Halogen	Pass	IEC 754-1
Density, g/cm ³	0.96	ASTM D297
Taber Abrasion, 1500 cycles, weight loss mg/cycle	<.005	ASTM D3389

Duralectric™ L - Electrical Properties		
Property	Typical Result	Test Method
Dielectric Strength, kV/mm	16	ASTM D419
Insulation resistance, GOhm	> 100	ASTM D257
Dielectric constant	2.47	ASTM D150

Duralectric™ L - Fire Resistance Properties	
Property	Typical Result
Flammability	
Oxygen Index, %	36
FAR 25.853, 60 Second Vertical	Pass
BSS7230 Method F6	Pass
Smoke Density	
BSS7238	Pass
Combustion Toxicity	
BSS7239	Pass
SMP800 C	Pass

IMPORTANT NOTE

Data are generated in accordance with prevailing national and international test standards and should be used only for material comparison. Actual property values are highly dependent on part geometry, mold configuration, and processing conditions. Please contact the factory to discuss the use of Duralectric™ L in specific applications or environments.



Duraelectric™ K performance specifications

Duraelectric™ K is a high-performance elastomeric material for use as wire insulation, cable jacketing, conduit jacketing, and cable/conduit overmolding.

NOTABLE ATTRIBUTES

- **Service Temperature Range: -110°C to 200°C**
- **Fire Resistant and Low Smoke-Zero Halogen (LSZH)**
- **Resistant to common aerospace, military and industrial fluids**
- **Resistant to gamma radiation**

Duraelectric™ K Physical Properties		
Property	Typical Result	Test Method
Hardness, Shore A	55	ASTM D2240
Tensile Strength, psi	1000	ASTM D412
Elongation, %	500	ASTM D412
Tear Strength, Die B, ppi	225	ASTM D624
Low Temperature Impact at -110°C	Pass/No Cracks	ASTM D2137
Ozone Resistance	Pass/No Cracks	ASTM D518
Zero Halogen	Pass	IEC 754-1
Gamma Radiation Resistance, Max Total Lifetime Dose, MRad	100	ASTM D412

Duraelectric™ K Electrical Properties		
Property	Typical Result	Test Method
Dielectric Strength, kV/mm	15	ASTM D419

Duraelectric™ K Fluid Resistance MIL-STD-810G, Method 504, Procedure II	
A-A-52624A Type I and Type II	MIL-L-23699 Gas Turbine Engine Oil
Amerex AFFF Fire Extinguishing Foam	MIBK
AMS 1432 Potassium Acetate De-Icer	Propylene Glycol Antifreeze
Calla 855 Aircraft Cleaner	R-134 Refrigerant
Coolanol 25R Silicate Ester Fluid	Royco 500 Gas Turbine Engine Oil
E36 Runway De-Icer	Royco 756 Hydraulic Fluid
Isopropyl Alcohol	MIL-H-5606 Hydraulic Fluid
JP-8	TT-I-735
MIL-C-85570 Aircraft Cleaner	Boiling Water
MIL-C-87252 Coolant	
Duraelectric™ K is not recommended for continuous immersion in petroleum based fuels, solvents, crude oil, or Type V phosphate ester fluids.	

IMPORTANT NOTE

Data are generated in accordance with prevailing national and international test standards and should be used only for material comparison. Actual property values are highly dependent on part geometry, mold configuration, and processing conditions. Please contact the factory to discuss the use of Duraelectric™ K in specific applications or environments.

Duralectric™ F performance specifications

Duralectric™ F is a high-performance elastomeric material for use as cable jacketing, conduit jacketing, cable/conduit overmolding, and molded boots.

NOTABLE ATTRIBUTES

- **Service Temperature Range: -65°C to 200°C**
- **Fire Resistant and suitable for immersion in jet fuel, diesel, lubricants, and solvents**

Duralectric™ F Physical Properties		
Property	Typical Result	Test Method
Hardness, Shore A	55	ASTM D2240
Tensile Strength, psi	1200	ASTM D412
Elongation, %	400	ASTM D412
Tear Strength, Die B, ppi	200	ASTM D624
Low Temperature Impact at -65°C	Pass/No Cracks	ASTM D2137
Ozone Resistance	Pass/No Cracks	ASTM D518

Duralectric™ F Electrical Properties		
Property	Typical Result	Test Method
Dielectric Strength, kV/mm	14	ASTM D149

Duralectric™ F Fluid Resistance ASTM D471 Immersion		
A-A-52624A Type I and Type II	2-Ethylhexyl Sebacate	MIL-L-23699 Gas Turbine Engine Oil
Amerex AFFF Fire Extinguishing Foam	Isooctane	Plexol 201
AMS 1432 Potassium Acetate De-Icer	70/30 Isooctane / Toluene	Polyol Esters
AMS 2629	Isopropyl Alcohol	Propylene Glycol Antifreeze
AMS3021	Jet A	Royco 500 Gas Turbine Engine Oil
Boiling Water	JET Oil	Royco 756 Hydraulic Fluid
Calla 855 Aircraft Cleaner	JP-8	TT-I-735
Coolanol 25R Silicate Ester Fluid	MIL-C-85570 Aircraft Cleaner	TTS-735 TY I & III
Diesel #2	MIL-C-87252 Coolant	
E36 Runway De-Icer	MIL-H-5606 Hydraulic Fluid	
Duralectric™ F is not recommended for continuous immersion in phosphate ester fluids such as Skydrol or HyJet.		

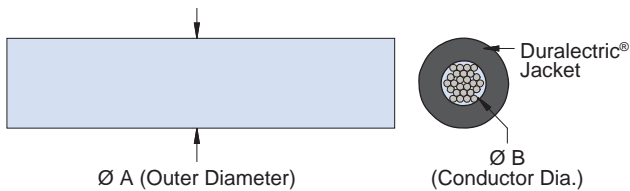
IMPORTANT NOTE

Data are generated in accordance with prevailing national and international test standards and should be used only for material comparison. Actual property values are highly dependent on part geometry, mold configuration, and processing conditions. Please contact the factory to discuss the use of Duralectric™ F in specific applications or environments.

with Duraelectric™ D Jacket, .125" wall, 4500 VAC
961-001

961-001 TURBOFLEX, .125" WALL, 4500 VAC

How to Order TurboFlex®					
Sample Part Number	961	-001	-T	-G	-2
Basic No.	TurboFlex with Duraelectric D Jacket				
Wall Thickness	-001 = .125"				
Conductor Material	-T = Tin/Copper (-60 – 150°C) -S = Silver/Copper (-60 – 200°C) -N = Nickel/Copper (-60 – 260°C)				
Wire Size (See Table I)	G, H, I, J, K, L				
Duraelectric D Jacket Color	See Table II				



Voltage Ratings		
P/N	AC Voltage Rating, RMS	DC Voltage Rating
961-001	4500	6300

AWG Code	AWG	Strand / Count / AWG	Cir Mil (nom)	Ø B in. (mm)	DC Resistance @ 20°C (Ohms / 1000 ft.)			Ampacity (Amps) 40°C Ambient	
					Nickel Copper	Tin Copper	Silver Copper	Nickel Copper	Tin/Silver Copper
G	1/0	7 X 7 X 86/36	105350	.431 (10.95)	.1178	.1188	.1107	532	399
H	2/0	7 X 7 X 108/36	132300	.483 (12.27)	.0938	.0946	.0882	591	467
I	3/0	19 X 7 X 51/36	169575	.547 (13.89)	.0738	.0745	.0694	708	546
J	4/0	19 X 7 X 64/36	212800	.613 (15.57)	.0588	.0594	.0553	830	629
K	250 MCM	19 X 7 X 75/36	249375	.663 (16.84)	.0479	.0483	.0450	910	705
L	450 MCM	19 X 7 X 135/36	448875	.890 (22.61)	.0266	.0263	.0250	1320	1020

Weatherproof, halogen free, flame resistant, functional to 260°C		
0	Black	Fed-Std-595C #17038
1	Brown	[TBD]
2	Red	Fed-Std-595C #11120
3	Orange	Fed-Std-595C #12300
4	Yellow	Fed-Std-595C #13591
5	Kelly Green	Fed-Std-595C #14193
6	Blue	Fed-Std-595C #15125
7	Violet	Fed-Std-595C #17142
8	Gray	Fed-Std-595C #26270
9	White	Fed-Std-595C #17875
OG	Dark Olive Green	Fed-Std-595C #34094
DT	Desert Tan	Fed-Std-595C #33446

Consult factory for other specific Fed Std colors

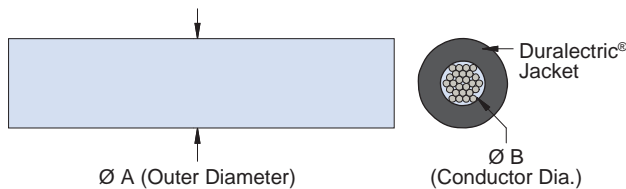
AWG Code	Weight lbs/1000 ft. (nom.)	Ø A in. (mm)	Jacket wall thickness in. (mm)
G	494.50	.681 (17.30)	.125 (3.18)
H	600.00	.733 (18.62)	
I	749.50	.797 (20.24)	
J	916.00	.863 (21.92)	
K	1055.60	.913 (23.19)	
L	1806.20	1.140 (28.96)	

NOTES

1. Bend radius is 3X the outer diameter
2. Cable will be marked with "GLENAIR TURBOFLEX", wire gauge, part number, CAGE 06324.
3. Jacket thickness tolerance is ±10%

961-002 TURBOFLEX, .093" WALL, 3500 VAC

How to Order TurboFlex®					
Sample Part Number	961	-002	-T	-G	-2
Basic No.	TurboFlex with Duralectric D Jacket				
Wall Thickness	-002 = .093"				
Conductor Material	-T = Tin/Copper (-60 – 150°C) -S = Silver/Copper (-60 – 200°C) -N = Nickel/Copper (-60 – 260°C)				
Wire Size (See Table I)	D, E, F, G, H, I, J, K, L				
Duralectric D Jacket Color	See Table II				



Voltage Ratings		
P/N	AC Voltage Rating, RMS	DC Voltage Rating
961-002	3500	4900

AWG Code	AWG	Strand / Count / AWG	Cir Mil (nom)	Ø B in. (mm)	DC Resistance @ 20°C (Ohms / 1000 ft.)			Ampacity (Amps) 40°C Ambient	
					Nickel Copper	Tin Copper	Silver Copper	Nickel Copper	Tin/Silver Copper
D	6	7 X 150/36	26250	.200 (5.08)	.4551	.4593	.4278	205	165
E	4	7 X 7 X 34/36	41650	.271 (6.88)	.2979	.3006	.2800	278	220
F	2	7 X 7 X 54/36	66150	.342 (8.69)	.1876	.1893	.1763	381	293
G	1/0	7 X 7 X 86/36	105350	.431 (10.95)	.1178	.1188	.1107	532	399
H	2/0	7 X 7 X 108/36	132300	.483 (12.27)	.0938	.0946	.0882	591	467
I	3/0	19 X 7 X 51/36	169575	.547 (13.89)	.0738	.0745	.0694	708	546
J	4/0	19 X 7 X 64/36	212800	.613 (15.57)	.0588	.0594	.0553	830	629
K	250 MCM	19 X 7 X 75/36	249375	.663 (16.84)	.0479	.0483	.0450	910	705
L	450 MCM	19 X 7 X 135/36	448875	.890 (22.61)	.0266	.0263	.0250	1320	1020

Weatherproof, halogen free, flame resistant, functional to 260°C		
0	Black	Fed-Std-595C #17038
1	Brown	[TBD]
2	Red	Fed-Std-595C #11120
3	Orange	Fed-Std-595C #12300
4	Yellow	Fed-Std-595C #13591
5	Kelly Green	Fed-Std-595C #14193
6	Blue	Fed-Std-595C #15125
7	Violet	Fed-Std-595C #17142
8	Gray	Fed-Std-595C #26270
9	White	Fed-Std-595C #17875
OG	Dark Olive Green	Fed-Std-595C #34094
DT	Desert Tan	Fed-Std-595C #33446

Consult factory for other specific Fed Std colors

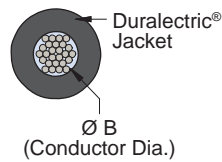
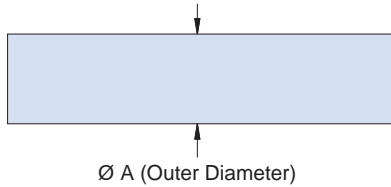
AWG Code	Weight lbs/1000 ft. (nom.)	Ø A in. (mm)	Jacket wall thickness in. (mm)
D	138.40	.386 (9.80)	.093 (2.36)
E	207.40	.457 (11.61)	
F	304.60	.528 (13.41)	
G	455.80	.617 (15.67)	
H	558.20	.649 (16.48)	
I	703.90	.733 (18.62)	
J	866.50	.799 (20.29)	
K	1003.10	.849 (21.56)	
L	1740.10	1.076 (27.33)	

NOTES

1. Bend radius is 3X the outer diameter
2. Cable will be marked with "GLENAIR TURBOFLEX", wire gauge, part number, CAGE 06324.
3. Jacket thickness tolerance is ±10%

961-003 TURBOFLEX, .062" WALL, 3000 VAC

How to Order TurboFlex®					
Sample Part Number	961	-003	-T	-G	-2
Basic No.	TurboFlex with Duralectric D Jacket				
Wall Thickness	-003 = .062"				
Conductor Material	-T = Tin/Copper (-60 – 150°C) -S = Silver/Copper (-60 – 200°C) -N = Nickel/Copper (-60 – 260°C)				
Wire Size (See Table I)	A, B, C, D, E, F, G, H				
Duralectric D Jacket Color	See Table II				



Voltage Ratings		
P/N	AC Voltage Rating, RMS	DC Voltage Rating
961-003	3000	4200

AWG Code	AWG	Strand / Count / AWG	Cir Mil (nom)	Ø B in. (mm)	DC Resistance @ 20°C (Ohms / 1000 ft.)			Ampacity (Amps) 40°C Ambient	
					Nickel Copper	Tin Copper	Silver Copper	Nickel Copper	Tin/Silver Copper
A	12	7 X 37/36	6475	.099 (2.51)	1.8450	1.8620	1.7340	78	68
B	10	7 X 59/36	10325	.126 (3.20)	1.1570	1.1680	1.0880	107	90
C	8	7 X 95/36	16625	.159 (4.04)	.7188	.7252	.6755	142	124
D	6	7 X 150/36	26250	.200 (5.08)	.4551	.4593	.4278	205	165
E	4	7 X 7 X 34/36	41650	.271 (6.88)	.2979	.3006	.2800	278	220
F	2	7 X 7 X 54/36	66150	.342 (8.69)	.1876	.1893	.1763	381	293
G	1/0	7 X 7 X 86/36	105350	.431 (10.95)	.1178	.1188	.1107	532	399
H	2/0	7 X 7 X 108/36	132300	.483 (12.27)	.0938	.0946	.0882	591	467

Weatherproof, halogen free, flame resistant, functional to 260°C		
0	Black	Fed-Std-595C #17038
1	Brown	[TBD]
2	Red	Fed-Std-595C #11120
3	Orange	Fed-Std-595C #12300
4	Yellow	Fed-Std-595C #13591
5	Kelly Green	Fed-Std-595C #14193
6	Blue	Fed-Std-595C #15125
7	Violet	Fed-Std-595C #17142
8	Gray	Fed-Std-595C #26270
9	White	Fed-Std-595C #17875
OG	Dark Olive Green	Fed-Std-595C #34094
DT	Desert Tan	Fed-Std-595C #33446

Consult factory for other specific Fed Std colors

AWG Code	Weight lbs/1000 ft. (nom.)	Ø A in. (mm)	Jacket wall thickness in. (mm)
A	40.20	.223 (5.66)	.062 (1.57)
B	56.20	.250 (6.35)	
C	81.00	.283 (7.19)	
D	117.90	.324 (8.23)	
E	182.80	.395 (10.03)	
F	275.90	.466 (11.84)	
G	422.00	.555 (14.10)	
H	521.40	.607 (15.42)	

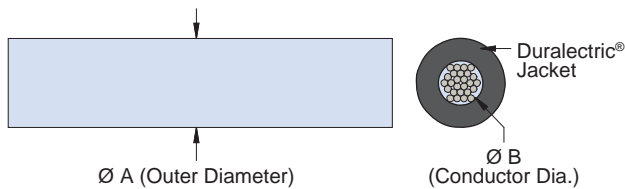
NOTES

1. Bend radius is 3X the outer diameter
2. Cable will be marked with "GLENAIR TURBOFLEX", wire gauge, part number, CAGE 06324.
3. Jacket thickness tolerance is ±10%

with Duralectric™ D Jacket, .032" wall, 2000 VAC
961-004

961-004 TURBOFLEX, .032" WALL, 2000 VAC

How to Order TurboFlex®					
Sample Part Number	961	-004	-T	-G	-2
Basic No.	TurboFlex with Duralectric D Jacket				
Wall Thickness	-004 = .032"				
Conductor Material	-T = Tin/Copper (-60 – 150°C) -S = Silver/Copper (-60 – 200°C) -N = Nickel/Copper (-60 – 260°C)				
Wire Size (See Table I)	R, S, A, B, C, D, E, F, G				
Duralectric D Jacket Color	See Table II				



Voltage Ratings		
P/N	AC Voltage Rating, RMS	DC Voltage Rating
961-004	2000	2800

AWG Code	AWG	Strand / Count / AWG	Cir Mil (nom)	Ø B in. (mm)	DC Resistance @ 20°C (Ohms / 1000 ft.)			Ampacity (Amps) 40°C Ambient	
					Nickel Copper	Tin Copper	Silver Copper	Nickel Copper	Tin/Silver Copper
T	20	42-36	1050	.037 (.94)	10.7178	10.7538	10.0747	16	14
R	16	7 X 15/36	2625	.063 (1.60)	4.5510	4.5930	4.2780	40	36
S	14	7 X 24/36	4200	.080 (2.03)	2.8450	2.8710	2.6740	59	54
A	12	7 X 37/36	6475	.099 (2.51)	1.8450	1.8620	1.7340	78	68
B	10	7 X 59/36	10325	.126 (3.20)	1.1570	1.1680	1.0880	107	90
C	8	7 X 95/36	16625	.159 (4.04)	.7188	.7252	.6755	142	124
D	6	7 X 150/36	26250	.200 (5.08)	.4551	.4593	.4278	205	165
E	4	7 X 7 X 34/36	41650	.271 (6.88)	.2979	.3006	.2800	278	220
F	2	7 X 7 X 54/36	66150	.342 (8.69)	.1876	.1893	.1763	381	293
G	1/0	7 X 7 X 86/36	105350	.431 (10.95)	.1178	.1188	.1107	532	399

Weatherproof, halogen free, flame resistant, functional to 260°C		
0	Black	Fed-Std-595C #17038
1	Brown	[TBD]
2	Red	Fed-Std-595C #11120
3	Orange	Fed-Std-595C #12300
4	Yellow	Fed-Std-595C #13591
5	Kelly Green	Fed-Std-595C #14193
6	Blue	Fed-Std-595C #15125
7	Violet	Fed-Std-595C #17142
8	Gray	Fed-Std-595C #26270
9	White	Fed-Std-595C #17875
OG	Dark Olive Green	Fed-Std-595C #34094
DT	Desert Tan	Fed-Std-595C #33446

Consult factory for other specific Fed Std colors

AWG Code	Weight lbs/1000 ft. (nom.)	Ø A in. (mm)	Jacket wall thickness in. (mm)
R	14.40	.127 (3.23)	.032 (.81)
S	20.70	.144 (3.66)	
A	29.40	.163 (4.14)	
B	43.90	.190 (4.83)	
C	66.90	.223 (5.66)	
D	101.40	.264 (6.71)	
E	162.40	.335 (8.51)	
F	251.60	.406 (10.31)	
G	392.70	.495 (12.57)	

NOTES

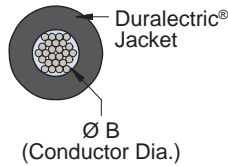
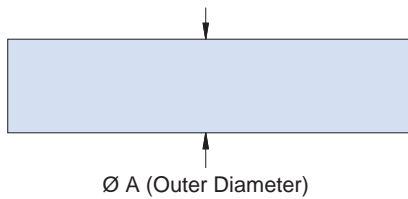
1. Bend radius is 3X the outer diameter
2. Cable will be marked with "GLENAIR TURBOFLEX", wire gauge, part number, CAGE 06324.
3. Jacket thickness tolerance is ±.005

with Duraelectric™ D Jacket, lightweight aluminum conductor, .025" wall, 1750 VAC • 961-010

961-010 TURBOFLEX ALUMINUM, .025" WALL, 1750 VAC

■ For weight savings: all the benefits of TurboFlex wire and Duraelectric D jacketing with lightweight aluminum core conductor

How to Order TurboFlex®					
Sample Part Number	961	-010	-A	-G	-2
Basic No.	TurboFlex with Duraelectric D Jacket				
Wall Thickness	-010 = .025"				
Conductor Material	-A = Aluminum core (-60° – 200°C)				
Wire Size (See Table I)	R, S, A, B, C, D, E, F, G				
Duraelectric D Jacket Color	See Table II				



Voltage Ratings		
P/N	AC Voltage Rating, RMS	DC Voltage Rating
961-010	1750	4200

Table I: TurboFlex Wire Size, Dimensions, DC Resistance and Ampacity Ratings						
AWG Code	AWG	Strand / Count / AWG	Cir Mil (nom)	Ø B in. (mm)	DC Resistance @ 20°C (Ohms / 1000 ft.)	Ampacity (Amps) 40°C Ambient
R	16	7 X 15/36	2625	.063 (1.60)	6.85	27
S	14	7 X 24/36	4200	.080 (2.03)	4.26	36
A	12	7 X 37/36	6475	.099 (2.51)	2.80	47
B	10	7 X 59/36	10325	.126 (3.20)	1.69	63
C	8	7 X 95/36	16625	.159 (4.04)	1.07	83
D	6	7 X 150/36	26250	.200 (5.08)	0.67	112
E	4	7 X 7 X 34/36	41650	.271 (6.88)	0.42	148
F	2	7 X 7 X 54/36	66150	.342 (8.69)	0.26	197
G	1/0	7 X 7 X 86/36	105350	.431 (10.95)	0.16	262

Table II: Duraelectric™ D Jacket Color		
Weatherproof, halogen free, flame resistant, functional to 260°C		
0	Black	Fed-Std-595C #17038
1	Brown	[TBD]
2	Red	Fed-Std-595C #11120
3	Orange	Fed-Std-595C #12300
4	Yellow	Fed-Std-595C #13591
5	Kelly Green	Fed-Std-595C #14193
6	Blue	Fed-Std-595C #15125
7	Violet	Fed-Std-595C #17142
8	Gray	Fed-Std-595C #26270
9	White	Fed-Std-595C #17875
OG	Dark Olive Green	Fed-Std-595C #34094
DT	Desert Tan	Fed-Std-595C #33446

Consult factory for other specific Fed Std colors

961-010 Wire Weight and Outer Diameter			
AWG Code	Weight lbs/1000 ft. (nom.)	Ø A in. (mm)	Jacket wall thickness in. (mm)
R	6.4	.113 (2.87)	.025 (.64)
S	8.7	.130 (2.54)	
A	11.7	.149 (3.78)	
B	16.6	.176 (4.47)	
C	24.2	.209 (5.31)	
D	35.3	.250 (6.35)	
E	53.3	.321 (8.15)	
F	80.1	.392 (9.96)	
G	122.0	.481 (12.22)	

NOTES

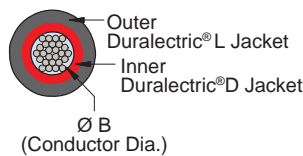
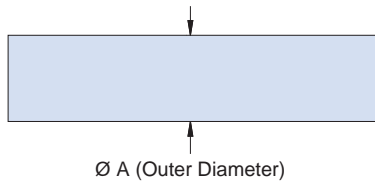
- Bend radius is 3X the outer diameter
- Cable will be marked with "GLENAIR ALUMINUM TURBOFLEX", wire gauge, part number, CAGE 06324.
- Jacket thickness tolerance is ±.005

with dual-layer Duraelectric™ D / L jacketing, .062" wall, 3000 VAC
961-035

961-035 TURBOFLEX, DUAL-LAYER JACKET, .062" WALL (2X .031"), 3000 VAC

- Inner Duraelectric D jacket, outer Duraelectric L jacket for abrasion protection
- If outer jacket is damaged, inner jacket color shows through providing immediate visual indication of damage

How to Order TurboFlex®					
Sample Part Number	961	-035	-C	-A	-2 -4
Basic No.	TurboFlex with dual-layer Duraelectric Jacket (inner Duraelectric D, outer Duraelectric L)				
Wall Thickness	-004 = .032"				
Conductor Material	-C = Bare Copper (-60 – 150°C) -T = Tin/Copper (-60 – 150°C) -S = Silver/Copper (-60 – 200°C) -N = Nickel/Copper (-60 – 260°C)				
Wire Size (See Table I)	A, B, C, D, E, F, G				
Inner Jacket Color	See Table II (.031" thick)				
Outer Jacket Color	See Table II (.031" thick)				



Voltage Ratings		
P/N	AC Voltage Rating, RMS	DC Voltage Rating
961-035	3000	2800

Table I: TurboFlex Wire Size, Dimensions, DC Resistance and Ampacity Ratings										
AWG Code	AWG	Strand / Count / AWG	Cir Mil (nom)	Ø B in. (mm)	DC Resistance @ 20°C (Ohms / 1000 ft.)			Ampacity (Amps) 40°C Ambient		
					Nickel Copper	Tin Copper	Silver/Bare Copper	Nickel Copper	Tin/Silver Copper	Bare Copper
A	12	7 X 37/36	6475	.099 (2.51)	1.8450	1.8620	1.7340	78	68	40
B	10	7 X 59/36	10325	.126 (3.20)	1.1570	1.1680	1.0880	107	90	55
C	8	7 X 95/36	16625	.159 (4.04)	.7188	.7252	.6755	142	124	80
D	6	7 X 150/36	26250	.200 (5.08)	.4551	.4593	.4278	205	165	105
E	4	7 X 7 X 34/36	41650	.271 (6.88)	.2979	.3006	.2800	278	220	140
F	2	7 X 7 X 54/36	66150	.342 (8.69)	.1876	.1893	.1763	381	293	190
G	1/0	7 X 7 X 86/36	105350	.431 (10.95)	.1178	.1188	.1107	532	399	260
H	2/0	7 X 7 X 108/36	132300	.483 (12.27)	.0938	.0946	.0882	591	467	300

Table II: Duraelectric™ Jacket Color		
Weatherproof, halogen free, flame resistant, functional to 260°C		
0	Black	Fed-Std-595C #17038
1	Brown	[TBD]
2	Red	Fed-Std-595C #11120
3	Orange	Fed-Std-595C #12300
4	Yellow	Fed-Std-595C #13591
5	Kelly Green	Fed-Std-595C #14193
6	Blue	Fed-Std-595C #15125
7	Violet	Fed-Std-595C #17142
8	Gray	Fed-Std-595C #26270
9	White	Fed-Std-595C #17875
OG	Dark Olive Green	Fed-Std-595C #34094
DT	Desert Tan	Fed-Std-595C #33446
Consult factory for other specific Fed Std colors		

961-035 Wire Weight and Outer Diameter			
AWG Code	Weight lbs/1000 ft. (nom.)	Ø A in. (mm)	Jacket wall thickness in. (mm)
A	40.20	.223 (5.66)	.062 (1.57)
B	56.20	.250 (6.35)	
C	81.00	.283 (7.19)	
D	117.90	.324 (8.23)	
E	182.80	.395 (10.03)	
F	275.90	.466 (11.84)	
G	422.00	.555 (14.10)	
H	521.40	.607 (15.42)	

NOTES

1. Bend radius is 3X the outer diameter
2. Cable will be marked with "GLENAIR TURBOFLEX", wire gauge, part number, CAGE 06324.
3. Jacket thickness tolerance is ±10%

with Duralectric™ D Jacket and fabric overbraid for abrasion / temperature protection • 961-044

961-044 TURBOFLEX WITH FABRIC OVERBRAID

Fabric overbraid provides abrasion and temperature protection. Choose the best braid for your application with the selection guide table at right.

How to Order TurboFlex®						
Sample Part Number	961-044	-1	-C	-G	-2	-D -0
Basic No.	TurboFlex with Duralectric D Jacket and fabric overbraid					
Wall Thickness	-1 = .125" -2 = .093" -3 = .062" -4 = .032"					
Conductor Material	-C = Bare Copper -T = Tin/Copper (-60° - 150°C) -S = Silver/Copper (-60° - 200°C) -N = Nickel/Copper (-60° - 260°C)					
Wire Size (See Table I)	See Table I: (Conductor size availability depends on jacket thickness) A, B, C, D, E, F, G, H, I, J, K, L, T, R, S					
Duralectric D Jacket Color	See Table II					
Braid Material	See Braid Material and Color Selection Guide					
Braid Color	See Braid Material and Color Selection Guide					

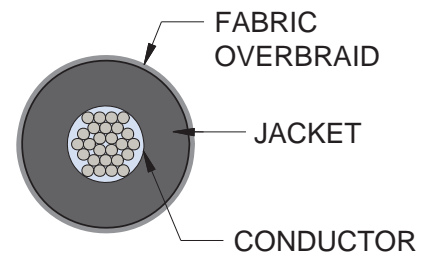
Conductor size (AWG)	Jacket Thickness in. (mm)				
	.125	.093	.062	.032	
20	N/A	N/A	N/A	T	
16				R	
14				S	
12			A	A	
10			B	B	
8			C	C	C
6			D	D	D
4			E	E	E
2			F	F	F
1/0			G	G	G
2/0	H	H	H		
3/0	I	I	N/A		
4/0	J	J			
250 MCM	K	K	N/A		
450 MCM	L	L			

Conductor size (AWG)	Jacket Thickness in. (mm)				
	.125	.093	.062	.032	
20	N/A	N/A	N/A	.12 (3.05)	
16				.15 (3.81)	
14				.17 (4.32)	
12			.25 (6.35)	.19 (4.83)	
10			.27 (6.86)	.21 (5.33)	
8			.37 (9.40)	.31 (7.87)	.25 (6.35)
6			.41 (10.41)	.35 (8.89)	.29 (7.37)
4			.48 (12.19)	.42 (10.67)	.36 (9.14)
2			.55 (13.97)	.49 (12.45)	.43 (10.92)
1/0			.70 (17.78)	.64 (16.26)	.58 (14.73)
2/0	.76 (19.30)	.67 (17.02)	.63 (16.00)	N/A	
3/0	.82 (20.83)	.76 (19.30)	N/A		N/A
4/0	.89 (22.61)	.82 (20.83)			
250 MCM	.94 (23.88)	.87 (22.10)	N/A	N/A	
450 MCM	1.16 (29.46)	1.10 (27.94)			

Weatherproof, halogen free, flame resistant, functional to 260°C		
0	Black	Fed-Std-595C #17038
1	Brown	[TBD]
2	Red	Fed-Std-595C #11120
3	Orange	Fed-Std-595C #12300
4	Yellow	Fed-Std-595C #13591
5	Kelly Green	Fed-Std-595C #14193
6	Blue	Fed-Std-595C #15125
7	Violet	Fed-Std-595C #17142
8	Gray	Fed-Std-595C #26270
9	White	Fed-Std-595C #17875
OG	Dark Olive Green	Fed-Std-595C #34094
DT	Desert Tan	Fed-Std-595C #33446

Consult factory for other specific Fed Std colors

Jacket Thickness	AC Voltage Rating, RMS
.125 (3.18)	4500
.093 (2.36)	3500
.062 (1.57)	3000
.032 (0.81)	2000



NOTES

1. Cable will be tagged with complete part number

with Duraelectric™ D Jacket and fabric overbraid for abrasion / temperature protection • 961-044

Braid Material and Color Selection Guide										
Principal Selection Criteria	General Duty / Abrasion Resistance					Economy		Temperature Tolerance	Fire Resistance	
Braid Code Ref. P/N Material Construction	Z	P	H	M	R	D	Y	K	X	V
	102-061 Monofilament FEP	102-001 - 102-002 Monofilament PET, Type FR	102-020 thru -023 Monofilament Halar®	103-013 Yarn, Nomex®	102-080 Monofilament Ryton, Type R-7	102-073 Yarn, Dacron®	102-072 Yarn, Nylon	102-051 Monofilament PEEK	100-022 Yarn, PTFE-Glass	102-071 Yarn, Kevlar®
Color Code Options	C = Clear	B = Black W = White	B = Black W = White BW = Black w/ White Tracer WB = White w/ Black Tracer	B = Black R = Red OR = Orange GN = Green GY = Gray W = White TN = Desert Tan	N = Natural	B = Black	B = Black GY = Gray OD = Olive Drab	B = Black	BR = Brown N = Natural	B = Black N = Natural
Halogen-Free	NO		NO						NO	
Temperature Range	-55°C to +200°C	-55°C to +125°C	-65°C to +150°C	-55°C to +200°C	-65°C to +180°C	-62°C to +125°C	-20° to +170°	-65°C to +260°C	-204°C to +482°C	-73°C to +160°C
Tensile Strength (PSI) Yield	3300	50,000	7000	90,000	19,000	10,000	12,400	13,000	450,000	400,000
Elongation Percentage	50%	20%	15%	25%	40%	12%	90%	38%	5%	3.6%
Chemical Resistance	Excellent	Good	Excellent	Excellent	Excellent	Good	Excellent	Excellent	Excellent	Excellent
Abrasion Resistance	Good	Good	Excellent	Good	Excellent	Fair	Excellent	Excellent	Excellent	Good
Weight / Duty (specific gravity)	Heavy (2.17)	Medium (1.38)	Medium (1.68)	Medium (1.58)	Light (1.25)	Medium (1.38)	Light (1.14)	Light (1.3)	Heavy (2.5)	Medium (1.44)
Flammability	Very Low	Flammable, Self-Extinguishing	Very Low	Will Not Melt	Very Low	Flammable	Flammable	Very Low	Will Not Burn	Will Not Melt

Table V: Service Temperature Matrix (min/max in °C)					
Service temperature dependent on conductor and braid material selected					
Braid Code	Braid Material (and temperature range)	Conductor Material (and temperature range)			
		Bare Copper (-60/+150)	Tin Copper (-60/+150)	Silver Copper (-60/+200)	Nickel Copper (-60/+260)
D	Dacron (-62/+125)	(-60/+125)	(-60/+125)	(-60/+125)	(-60/+125)
H	Halar (-65/+150)	(-60/+150)	(-60/+150)	(-60/+150)	(-60/+150)
Y	Nylon (-20/+170)	(-20/+150)	(-20/+150)	(-20/+170)	(-20/+170)
M	Nomex (-55/+200)	(-55/+150)	(-55/+150)	(-55/+200)	(-55/+200)
P	Polyester Type FR (-55/+125)	(-55/+125)	(-55/+125)	(-55/+125)	(-55/+125)
Z	FEP Teflon (-55/+200)	(-55/+150)	(-55/+150)	(-55/+200)	(-55/+200)
R	Ryton Type R-7 (-65/+180)	(-60/+150)	(-60/+150)	(-60/+180)	(-60/+180)
K	PEEK (-65/+260)	(-60/+150)	(-60/+150)	(-60/+200)	(-60/+260)
V	Kevlar (-73/+160)	(-60/+150)	(-60/+150)	(-60/+160)	(-60/+160)
X	PTFE-Glass (-204/+482)	(-60/+150)	(-60/+150)	(-60/+200)	(-60/+260)

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with Duralectric™ D Jacket, metallic braided shielding for grounding in high-power applications • 961-007

961-007 TURBOFLEX WITH METALLIC BRAIDED SHIELDING

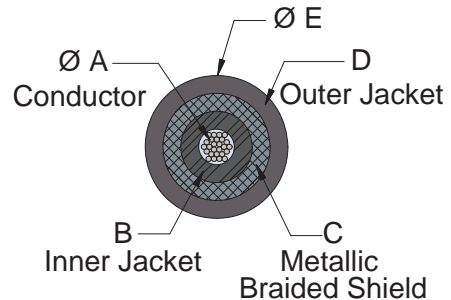
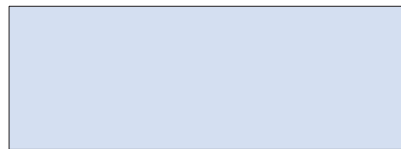
■ **Metallic braided shield provides grounding for high-power applications. 961-007 features an inner black Duralectric D jacket to protect the conductor, surrounded with the metallic shield, with an outer jacket for overall cable protection.**

How to Order TurboFlex®				
Sample Part Number	961-007	-T	-A	-2
Basic No.	TurboFlex with Duralectric D Jacket			
Conductor / Braided Shield Material	-T = Tin/Copper (-60° - 150°C) -S = Silver/Copper (-60° - 200°C) -N = Nickel/Copper (-60° - 260°C)			
Wire Size (See Table I)	A, B, C, D, E, F, G, H, I, J, K, M			
Outer Duralectric D Jacket Color	See Table II			

AWG Code	AWG	Strand / Count / AWG	Cir Mil (nom)	Ø A in. (mm)	"B" Inner Jacket Wall Thickness in. (mm)	"C" Screen Thickness in. (mm)	"D" Outer Jacket Wall Thickness in. (mm)	Ø E in. (mm)
A	12	7 X 37/36	6475	.099 (2.51)	.062 (1.57)	.011 (0.28)	.062 (1.57)	.369 (9.37)
B	10	7 X 59/36	10325	.126 (3.20)				.396 (10.06)
C	8	7 X 95/36	16625	.159 (4.04)				.429 (10.90)
D	6	7 X 150/36	26250	.200 (5.08)				.470 (11.94)
E	4	7 X 7 X 34/36	41650	.271 (6.88)				.541 (13.74)
F	2	7 X 7 X 54/36	66150	.342 (8.69)				.612 (15.54)
G	1/0	7 X 7 X 86/36	105350	.431 (10.95)				.701 (17.81)
H	2/0	7 X 7 X 108/36	132300	.483 (12.27)				.753 (19.13)
I	3/0	19 X 7 X 51/36	169575	.547 (13.89)				.817 (20.75)
J	4/0	19 X 7 X 64/36	212800	.613 (15.57)				.883 (22.43)
K	250 MCM	19 X 7 X 75/36	249375	.663 (16.84)				.933 (23.70)
M	350 MCM	19 X 7 X 106/36	352450	.789 (20.04)				1.059 (26.90)

Weatherproof, halogen free, flame resistant, functional to 260°C		
0	Black	Fed-Std-595C #17038
1	Brown	[TBD]
2	Red	Fed-Std-595C #11120
3	Orange	Fed-Std-595C #12300
4	Yellow	Fed-Std-595C #13591
5	Kelly Green	Fed-Std-595C #14193
6	Blue	Fed-Std-595C #15125
7	Violet	Fed-Std-595C #17142
8	Gray	Fed-Std-595C #26270
9	White	Fed-Std-595C #17875
OG	Dark Olive Green	Fed-Std-595C #34094
DT	Desert Tan	Fed-Std-595C #33446

Consult factory for other specific Fed Std colors



NOTES

1. Bend radius is 4X the outer diameter
2. Cable will be marked with "GLENAIR TURBOFLEX", wire gauge, part number, CAGE 06324.
3. Jacket thickness tolerance is ±10%
4. Braided shield is 90% optical coverage

SERIES 96

turboflex ultra-flexible power distribution cable



with Duralectric™ D Jacket, metallic braided shielding for grounding in high-power applications • 961-007

Table I: TurboFlex DC Resistance and Ampacity Ratings						
AWG Code	DC Resistance @ 20°C (Ohms / 1000 ft.)			Ampacity (Amps) 40°C Ambient		Braid Ampacity (Amps) 30°C Ambient
	Nickel Copper	Tin Copper	Silver Copper	Nickel Copper	Tin/Silver Copper	
A	1.8450	1.8620	1.7340	78	68	46
B	1.1570	1.1680	1.0880	107	90	53
C	.7188	.7252	.6755	142	124	35
D	.4551	.4593	.4278	205	165	42
E	.2979	.3006	.2800	278	220	53
F	.1876	.1893	.1763	381	293	56
G	.1178	.1188	.1107	532	399	73
H	.0938	.0946	.0882	591	467	73
I	.0738	.0745	.0694	708	546	85
J	.0588	.0594	.0553	830	629	86
K	.0502	.0507	.0472	910	705	88
M	.0355	.0359	.0334	1140	880	64

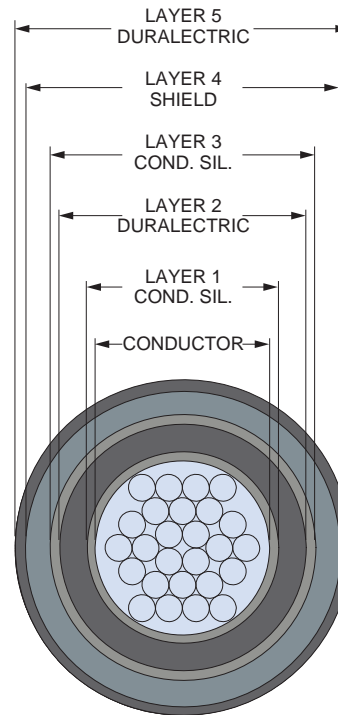
Ampacity Ratings: Ambient Temperature Correction Factors	
Ambient Temp (°C)	For ambient temperatures other than 40°C (104°F), multiply the allowable ampacities from the table above by the appropriate factor below
41 – 50	0.97
51 – 60	0.94
61 – 70	0.90
71 – 80	0.87
81 – 90	0.83
91 – 100	0.79
101 – 120	0.71
121 – 140	0.61
141 – 160	0.50
161 – 180	0.35
181 – 200	----
201 – 255	----

with dual Duraelectric™ D Jacket, conductive silicone, and metallic braided shielding for high-voltage/high-power applications • 961-056

961-056 TURBOFLEX HI-VOLT/HI-POWER WITH METALLIC BRAID SHIELD / CONDUCTIVE SILICONE

- Dual layers of Duraelectric and conductive silicone plus a metallic braided shield layer for high-voltage, high-power applications
- Partial Discharge Initiation Voltage (PDIV) at 5 pC = 13.5 kVAC
- Partial Discharge Extinction Voltage (PDEV) at 5 pC = 12 kVAC
- DWV = 28 kVAC, 148 kVDC
- IR > 2 TOhm

How to Order TurboFlex®				
Sample Part Number	961-056	-T	-G	-0
Basic No.	TurboFlex with Duraelectric D Jacket			
Conductor / Braided Shield Material	-T = Tin/Copper (-60° - 150°C) -S = Silver/Copper (-60° - 200°C) -N = Nickel/Copper (-60° - 260°C)			
Wire Size (See Table I)	G, H, I, J			
Outer Duraelectric D Jacket Color	See Table II			



Weatherproof, halogen free, flame resistant, functional to 260°C		
0	Black	Fed-Std-595C #17038
1	Brown	[TBD]
2	Red	Fed-Std-595C #11120
3	Orange	Fed-Std-595C #12300
4	Yellow	Fed-Std-595C #13591
5	Kelly Green	Fed-Std-595C #14193
6	Blue	Fed-Std-595C #15125
7	Violet	Fed-Std-595C #17142
8	Gray	Fed-Std-595C #26270
9	White	Fed-Std-595C #17875
OG	Dark Olive Green	Fed-Std-595C #34094
DT	Desert Tan	Fed-Std-595C #33446

Consult factory for other specific Fed Std colors

Layer	Material / Plating
Conductor	TurboFlex copper conductor plated per P/N development
1	Conductive silicone, black (.030" thick)
2	Duraelectric, color per P/N development (.140" thick)
3	Conductive silicone, black (.020" Thick)
4	36 AWG copper shield, plating per P/N development. 95% coverage
5	Duraelectric, color per P/N development (.080" thick)

NOTES

1. Cable will be marked with "GLENAIR TURBOFLEX", wire gauge, part number, CAGE 06324.
2. Bend radius is 6X the outer diameter
3. Voltage rating TBD
4. Overall diameter (Layer 5) tolerance is ±.020" (.51)



with dual Duralectric™ D Jacket, conductive silicone, and metallic braided shielding for high-voltage/high-power applications • 961-056

Table I: TurboFlex Wire Size, Dimensions						
AWG Code	AWG	Strand / Count / AWG	Cir Mil (nom)	Conductor Ø in. (mm)	Outer Jacket (Layer 5) Wall Thickness in. (mm)	Ø E in. (mm)
G	1/0	7 X 7 X 86/36	105350	.431 (10.95)	.993 (25.22)	.701 (17.81)
H	2/0	7 X 7 X 108/36	132300	.483 (12.27)	1.045 (26.54)	.753 (19.13)
I	3/0	19 X 7 X 51/36	169575	.547 (13.89)	1.109 (28.17)	.817 (20.75)
J	4/0	19 X 7 X 64/36	212800	.613 (15.57)	1.175 (29.85)	.883 (22.43)

DC Resistance and Ampacity Ratings*					
AWG Code	DC Resistance @ 20°C (Ohms / 1000 ft.)			Ampacity (Amps) 40°C Ambient	
	Nickel Copper	Tin Copper	Silver Copper	Nickel Copper	Tin/Silver Copper
G	.1178	.1188	.1107	532	399
H	.0938	.0946	.0882	591	467
I	.0738	.0745	.0694	708	546
J	.0588	.0594	.0553	830	629

*Based on NEC Table 310.19

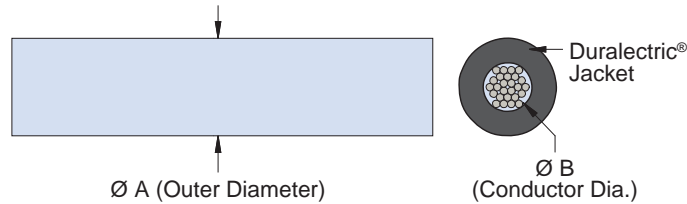
Electrical Specifications		
Property	Typical Result	Test Method
Partial Discharge Initiation Voltage (PDIV) at 5 pC	13.5 kVAC	EN3475-307
Partial Discharge Extinction Voltage (PDEV) at 5 pC	12 kVAC	EN3475-307
AC Dielectric Withstanding Voltage	28 kVAC	ASTM D3032
DC Dielectric Withstanding Voltage	148 kVDC	ASTM D3032
Insulation Resistance	> 2 TOhm	ASTM D3032

with Duraelectric™ L jacket for weight savings and best abrasion resistance • 961-041

961-041 TURBOFLEX WITH DURALECTRIC L (LIGHT) JACKET, .025" WALL, 1250 VAC

■ TurboFlex with weight-saving Duraelectric L (light) jacket: 25% lighter than original Duraelectric, best abrasion resistance, same great fluid/fire resistance as original Duraelectric

How to Order TurboFlex®				
Sample Part Number	961-041	-T	-A	-2
Basic No.	TurboFlex with Duraelectric L (light) Jacket			
Conductor Material	-T = Tin/Copper (-60° - 150°C) -S = Silver/Copper (-60° - 200°C) -N = Nickel/Copper (-60° - 260°C)			
Wire Size (See Table I)	R, S, A, B, C, D, E, F, G			
Duraelectric L Jacket Color	See Table II			



AWG Code	AWG	Strand / Count / AWG	Cir Mil (nom)	Ø B in. (mm)	DC Resistance @ 20°C (Ohms / 1000 ft.)			Ampacity (Amps) 40°C Ambient	
					Nickel Copper	Tin Copper	Silver Copper	Nickel Copper	Tin/Silver Copper
R	16	7 X 15/36	2625	.063 (1.60)	4.5510	4.5930	4.2780	40	36
S	14	7 X 24/36	4200	.080 (2.03)	2.8450	2.8710	2.6740	59	54
A	12	7 X 37/36	6475	.099 (2.51)	1.8450	1.8620	1.7340	78	68
B	10	7 X 59/36	10325	.126 (3.20)	1.1570	1.1680	1.0880	107	90
C	8	7 X 95/36	16625	.159 (4.04)	.7188	.7252	.6755	142	124
D	6	7 X 150/36	26250	.200 (5.08)	.4551	.4593	.4278	205	165
E	4	7 X 7 X 34/36	41650	.271 (6.88)	.2979	.3006	.2800	278	220
F	2	7 X 7 X 54/36	66150	.342 (8.69)	.1876	.1893	.1763	381	293
G	1/0	7 X 7 X 86/36	105350	.431 (10.95)	.1178	.1188	.1107	532	399

Weatherproof, halogen free, flame resistant, functional to 260°C		
0	Black	Fed-Std-595C #17038
1	Brown	[TBD]
2	Red	Fed-Std-595C #11120
3	Orange	Fed-Std-595C #12300
4	Yellow	Fed-Std-595C #13591
5	Kelly Green	Fed-Std-595C #14193
6	Blue	Fed-Std-595C #15125
7	Violet	Fed-Std-595C #17142
8	Gray	Fed-Std-595C #26270
9	White	Fed-Std-595C #17875
OG	Dark Olive Green	Fed-Std-595C #34094
DT	Desert Tan	Fed-Std-595C #33446

Consult factory for other specific Fed Std colors

AWG Code	Weight lbs/1000 ft. (nom.)	Ø A in. (mm)	Jacket wall thickness in. (mm)
R	11.60	.113 (2.87)	.025 (.64)
S	17.30	.130 (2.54)	
A	25.40	.149 (3.78)	
B	38.90	.176 (4.47)	
C	60.70	.209 (5.31)	
D	93.60	.250 (6.35)	
E	151.70	.321 (8.15)	
F	237.40	.392 (9.96)	
G	373.70	.481 (12.22)	

NOTES

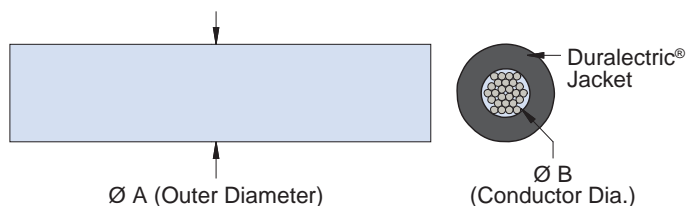
1. Bend radius is 3X the outer diameter
2. Cable will be marked with "GLENAIR TURBOFLEX LIGHT", wire gauge, part number, CAGE 06324.
3. Jacket thickness tolerance is ±.005

maximum weight saving with Duraelectric™ L jacket and aluminum conductor, best abrasion resistance • 961-042

961-042 TURBOFLEX WITH DURALECTRIC L (LIGHT) JACKET AND ALUMINUM CONDUCTOR, .025" WALL, 1250 VAC

- TurboFlex with Duraelectric L (light) jacket and aluminum conductor for lightest weight and best abrasion resistance

How to Order TurboFlex®				
Sample Part Number	961-042	-A	-C	-2
Basic No.	TurboFlex with Duraelectric L (light) Jacket, aluminum conductor			
Conductor Material	-A = Aluminum core			
Wire Size (See Table I)	R, S, A, B, C, D, E, F, G			
Duraelectric L Jacket Color	See Table II			



AWG Code	AWG	Strand / Count / AWG	Cir Mil (nom)	Ø B in. (mm)	DC Resistance @ 20°C (Ohms / 1000 ft.)	Ampacity (Amps) 40°C Ambient
R	16	7 X 15/36	2625	.063 (1.60)	6.85	27
S	14	7 X 24/36	4200	.080 (2.03)	4.26	36
A	12	7 X 37/36	6475	.099 (2.51)	2.80	47
B	10	7 X 59/36	10325	.126 (3.20)	1.69	63
C	8	7 X 95/36	16625	.159 (4.04)	1.07	83
D	6	7 X 150/36	26250	.200 (5.08)	0.67	112
E	4	7 X 7 X 34/36	41650	.271 (6.88)	0.42	148
F	2	7 X 7 X 54/36	66150	.342 (8.69)	0.26	197
G	1/0	7 X 7 X 86/36	105350	.431 (10.95)	0.16	262

Weatherproof, halogen free, flame resistant, functional to 260°C		
0	Black	Fed-Std-595C #17038
1	Brown	[TBD]
2	Red	Fed-Std-595C #11120
3	Orange	Fed-Std-595C #12300
4	Yellow	Fed-Std-595C #13591
5	Kelly Green	Fed-Std-595C #14193
6	Blue	Fed-Std-595C #15125
7	Violet	Fed-Std-595C #17142
8	Gray	Fed-Std-595C #26270
9	White	Fed-Std-595C #17875
OG	Dark Olive Green	Fed-Std-595C #34094
DT	Desert Tan	Fed-Std-595C #33446

Consult factory for other specific Fed Std colors

AWG Code	Weight lbs/1000 ft. (nom.)	Ø A in. (mm)	Jacket wall thickness in. (mm)
R	5.4	.113 (2.87)	.025 (.64)
S	7.5	.130 (2.54)	
A	10.3	.149 (3.78)	
B	14.9	.176 (4.47)	
C	22.1	.209 (5.31)	
D	32.8	.250 (6.35)	
E	50.0	.321 (8.15)	
F	76.0	.392 (9.96)	
G	116.9	.481 (12.22)	

NOTES

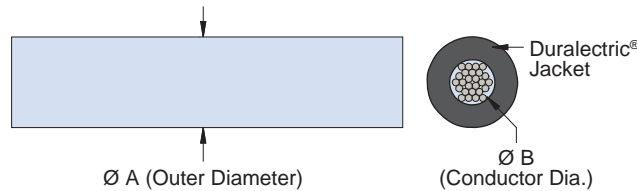
1. Bend radius is 3X the outer diameter
2. Cable will be marked with "GLENAIR ALUMINUM TURBOFLEX LIGHT", wire gauge, part number, CAGE 06324.
3. Jacket thickness tolerance is ±.005

with Duraelectric™ K jacket for low-temperature tolerance and gamma radiation resistance • 961-033

961-033 TURBOFLEX WITH DURALECTRIC K JACKET, .016" – .062" WALL

- TurboFlex with Duraelectric K jacket for low-temperature tolerance and gamma radiation resistance
- Ultra Low Temp Flexibility to -110°C (163 Kelvin)
- Perfect for spacecraft, satellites, nuclear environments

How to Order TurboFlex®				
Sample Part Number	961-033	-T	-A	-2
Basic No.	TurboFlex with Duraelectric K Jacket			
Conductor Material	-T = Tin/Copper (-60° - 150°C) -S = Silver/Copper (-60° - 200°C) -N = Nickel/Copper (-60° - 260°C)			
Wire Size (See Table I)	R, S, A, B, C, D, E, F, G			
Duraelectric L Jacket Color	See Table II			



AWG Code	AWG	Strand / Count / AWG	Cir Mil (nom)	Ø B in. (mm)	DC Resistance @ 20°C (Ohms / 1000 ft.)			Ampacity (Amps) 40°C Ambient		
					Nickel Copper	Tin Copper	Silver Copper or Bare Copper	Nickel Copper	Tin/Silver Copper	Bare Copper
T	20	42/36	1050	.037 (0.94)	10.7178	10.7538	10.0747	16	14	9
R	16	7 X 15/36	2625	.063 (1.60)	4.5510	4.5930	4.2780	40	36	24
S	14	7 X 24/36	4200	.080 (2.03)	2.8450	2.8710	2.6740	59	54	35
A	12	7 X 37/36	6475	.099 (2.51)	1.8450	1.8620	1.7340	78	68	40
B	10	7 X 59/36	10325	.126 (3.20)	1.1570	1.1680	1.0880	107	90	55
C	8	7 X 95/36	16625	.159 (4.04)	.7188	.7252	.6755	142	124	80
D	6	7 X 150/36	26250	.200 (5.08)	.4551	.4593	.4278	205	165	105
E	4	7 X 7 X 34/36	41650	.271 (6.88)	.2979	.3006	.2800	278	220	140
F	2	7 X 7 X 54/36	66150	.342 (8.69)	.1876	.1893	.1763	381	293	190
G	1/0	7 X 7 X 86/36	105350	.431 (10.95)	.1178	.1188	.1107	532	399	260

Weatherproof, halogen free, flame resistant, functional to 260°C		
0	Black	Fed-Std-595C #17038
1	Brown	[TBD]
2	Red	Fed-Std-595C #11120
3	Orange	Fed-Std-595C #12300
4	Yellow	Fed-Std-595C #13591
5	Kelly Green	Fed-Std-595C #14193
6	Blue	Fed-Std-595C #15125
7	Violet	Fed-Std-595C #17142
8	Gray	Fed-Std-595C #26270
9	White	Fed-Std-595C #17875
OG	Dark Olive Green	Fed-Std-595C #34094
DT	Desert Tan	Fed-Std-595C #33446

Consult factory for other specific Fed Std colors

AWG Code	Weight lbs/1000 ft. (nom.)	Ø A in. (mm)	Jacket wall thickness in. (mm)
T	5.00	.069 (1.75)	.016 (0.41)
R	11.10	.095 (2.41)	
S	20.70	.144 (3.66)	
A	29.40	.163 (4.14)	.032 (0.81)
B	43.90	.190 (4.83)	
C	66.90	.223 (5.66)	
D	101.40	.264 (6.71)	
E	162.40	.335 (8.51)	
F	275.90	.466 (11.84)	.062 (1.57)
G	422.00	.555 (14.10)	

Ambient Temp (°C)	For ambient temperatures other than 40°C (104°F), multiply the ampacity by the appropriate factor below
41 – 50	0.97
51 – 60	0.94
61 – 70	0.90
71 – 80	0.87
81 – 90	0.83
91 – 100	0.79
101 – 120	0.71
121 – 140	0.61
141 – 160	0.50
161 – 180	0.35

NOTES

1. Bend radius is 3X the outer diameter
2. Cable will be marked with "GLENAIR TURBOFLEX K", wire gauge, part number, CAGE 06324.
3. Jacket thickness tolerance is ±.002 for .016" thickness, ±.005 for .032" thickness, ±10% for .125" thickness

with Duraelectric™ F jacket, suitable for continuous immersion in fuel, diesel, lubricants, and solvents; fire resistant • 961-051

961-051 TURBOFLEX WITH DURAELECTRIC F JACKET, BLUE, .032" WALL, 1000 VAC

- TurboFlex with Duraelectric F jacket for fire resistance and outstanding immersion performance in fuel and harsh fluids
- Resistant to jet fuels and oils and flexible to -65°C
- Suited for harsh environments that require low temp flex such as aircraft and ground vehicle fuel systems

How to Order TurboFlex®				
Sample Part Number	961-051	-N	-A	-6
Basic No.	TurboFlex with Duraelectric F Jacket			
Conductor Material	-T = Tin/Copper (-60° - 150°C) -S = Silver/Copper (-60° - 200°C) -N = Nickel/Copper (-60° - 260°C)			
Wire Size (See Table I)	R, S, A, B, C, D, E, F, G			
Duraelectric F Jacket	Blue color			

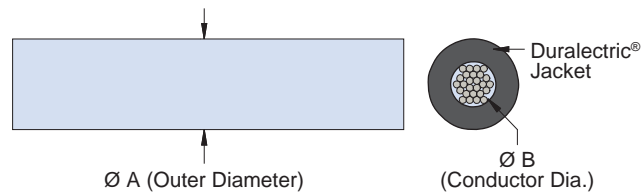


Table I: TurboFlex Wire Size, Dimensions, DC Resistance and Ampacity Ratings										
AWG Code	AWG	Strand / Count / AWG	Cir Mil (nom)	Ø B in. (mm)	DC Resistance @ 20°C (Ohms / 1000 ft.)			Ampacity (A mps) 40°C Ambient		
					Nickel Copper	Tin Copper	Silver Copper or Bare Copper	Nickel Copper	Tin/Silver Copper	Bare Copper
T	20	42/36	1050	.037 (0.94)	10.7178	10.7538	10.0747	16	14	9
R	16	7 X 15/36	2625	.063 (1.60)	4.5510	4.5930	4.2780	40	36	24
S	14	7 X 24/36	4200	.080 (2.03)	2.8450	2.8710	2.6740	59	54	35
A	12	7 X 37/36	6475	.099 (2.51)	1.8450	1.8620	1.7340	78	68	40
B	10	7 X 59/36	10325	.126 (3.20)	1.1570	1.1680	1.0880	107	90	55
C	8	7 X 95/36	16625	.159 (4.04)	.7188	.7252	.6755	142	124	80
D	6	7 X 150/36	26250	.200 (5.08)	.4551	.4593	.4278	205	165	105
E	4	7 X 7 X 34/36	41650	.271 (6.88)	.2979	.3006	.2800	278	220	140
F	2	7 X 7 X 54/36	66150	.342 (8.69)	.1876	.1893	.1763	381	293	190
G	1/0	7 X 7 X 86/36	105350	.431 (10.95)	.1178	.1188	.1107	532	399	260

961-033 Wire Weight and Outer Diameter			
AWG Code	Weight lbs/1000 ft. (nom.)	Ø A in. (mm)	Jacket wall thickness in. (mm)
T	7.60	.101 (2.57)	.032 (0.81)
R	14.40	.127 (3.23)	
S	20.70	.144 (3.66)	
A	29.40	.163 (4.14)	
B	43.90	.190 (4.83)	
C	66.90	.223 (5.66)	
D	101.40	.264 (6.71)	
E	162.40	.335 (8.51)	
F	251.60	.406 (10.31)	
G	392.70	.495 (12.57)	

NOTES

1. Bend radius is 3X the outer diameter
2. Cable will be marked with "GLENAIR TURBOFLEX F", wire gauge, part number, CAGE 06324.
3. Jacket thickness tolerance is ±.005

UL recognized, with Duralectric™ D Jacket, 1000 VAC
961-065

961-065 TURBOFLEX, 1000 VAC, UL RECOGNIZED

Glenair TurboFlex
961-065 is UL recognized



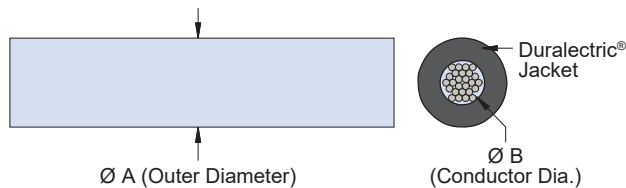
meets UL 758 Style 3644

How to Order TurboFlex®				
Sample Part Number	961-065	-N	-D	-2
Basic No.	TurboFlex, UL recognized, with Duralectric D Jacket			
Conductor Material	-N = Nickel/Copper (-60°C – 200°C)			
Wire Size (See Table I)	T, R, S, A, B, C, D, E, F, G, H, I, J, K, L			
Duralectric D Jacket Color	See Table II			

AWG Code	AWG	Strand / Count / AWG	Cir Mil (nom)	Ø B in. (mm)	DC Resistance @ 20°C (Ohms / 1000 ft.)		Ampacity (Amps) 40°C Ambient (per NEC Table 310.19)
					Nickel	Copper	Nickel Copper
T	20	42-36	1050	.037 (.94)		10.7178	16
R	16	7 X 15/36	2625	.063 (1.60)		4.5510	40
S	14	7 X 24/36	4200	.080 (2.03)		2.8450	59
A	12	7 X 37/36	6475	.099 (2.51)		1.8450	78
B	10	7 X 59/36	10325	.126 (3.20)		1.1570	107
C	8	7 X 95/36	16625	.159 (4.04)		.7188	142
D	6	7 X 150/36	26250	.200 (5.08)		.4551	205
E	4	7 X 7 X 34/36	41650	.271 (6.88)		.2979	278
F	2	7 X 7 X 54/36	66150	.342 (8.69)		.1876	381
G	1/0	7 X 7 X 86/36	105350	.431 (10.95)		.1178	532
H	2/0	7 X 7 X 108/36	132300	.483 (12.27)		.0938	591
I	3/0	19 X 7 X 51/36	169575	.547 (13.89)		.0738	708
J	4/0	19 X 7 X 64/36	212800	.613 (15.57)		.0588	830
K	250 MCM	19 X 7 X 75/36	249375	.663 (16.84)		.0502	910
L	450 MCM	19 X 7 X 135/36	448875	.890 (22.61)		.0278	1320

Weatherproof, halogen free, flame resistant, functional to 200°C		
0	Black	Fed-Std-595C #17038
1	Brown	[TBD]
2	Red	Fed-Std-595C #11120
3	Orange	Fed-Std-595C #12300
4	Yellow	Fed-Std-595C #13591
5	Kelly Green	Fed-Std-595C #14193
6	Blue	Fed-Std-595C #15125
7	Violet	Fed-Std-595C #17142
8	Gray	Fed-Std-595C #26270
9	White	Fed-Std-595C #17875
OG	Dark Olive Green	Fed-Std-595C #34094
DT	Desert Tan	Fed-Std-595C #33446

Consult factory for other specific Fed Std colors



NOTES

1. Bend radius is 3X the outer diameter
2. Cable will be marked with "GLENNAIR TURBOFLEX", wire gauge, part number, CAGE 06324, UL 758 AWM 3644, 1000VAC, 200°C.
3. Jacket thickness tolerance is ±.005 for .035" thickness, and ±10% for for all other sizes.

SERIES 96

turboflex ultra-flexible power distribution cable



UL recognized, with Duralectric™ D Jacket, 1000 VAC
961-065

961-004 Wire Weight and Outer Diameter			
AWG Code	Weight lbs/1000 ft. (nom.)	Ø A in. (mm)	Jacket wall thickness in. (mm)
T	8.1	.107 (2.72)	.035 (.89)
R	15.2	.133 (3.38)	
S	21.5	.150 (3.81)	
A	30.3	.169 (4.29)	
B	50.8	.196 (4.98)	.050 (1.27)
C	82.6	.259 (6.58)	
D	119.7	.330 (8.38)	.065 (1.65)
E	185.7	.401 (10.19)	
F	278.6	.472 (11.99)	
G	446.8	.601 (15.27)	.085 (2.16)
H	548.4	.653 (16.59)	
I	693.1	.717 (18.21)	
J	854.7	.783 (19.89)	
K	1014.3	.863 (21.92)	.100 (2.54)
L	1754.2	1.090 (27.69)	

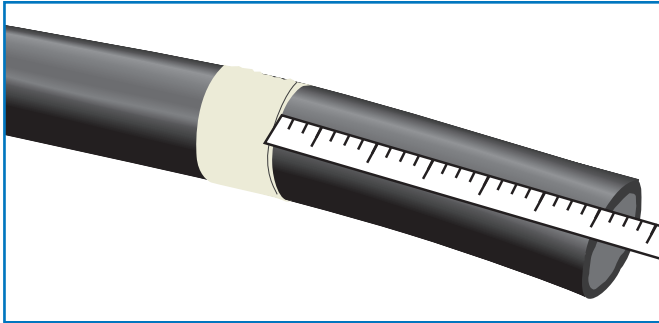
Ambient Temperature Correction Factors	
Ambient Temp (°C)	For ambient temperatures other than 40°C (104°F), multiply the ampacity by the appropriate factor below
41 – 50	0.97
51 – 60	0.94
61 – 70	0.90
71 – 80	0.87
81 – 90	0.83
91 – 100	0.79
101 – 120	0.71
121 – 140	0.61
141 – 160	0.50
161 – 180	0.35
181 – 200	----
201 – 225	----

961-065 UL recognized TurboFlex environmental performance	
Temperature rating	Duralectric D: -60°C to 200°C
Halogen free	per IEC 60614-1
Accelerated weathering and simulated solar radiation at ground level	per IEC 60068-2-5; 56 Days exposure, suitable for greater than 50 years of service in direct sunlight
Flame resistant	per IEC 60614-1
Flame resistant	per UL 1685, section 12 (FT4/IEEE120), vertical-tray fire-propagation and smoke release test
Flame resistant	per FAR 25.853 (A) amendment 25-116, appendix F part I (A) (1) (i), 60 second vertical burn test
Limiting oxygen index	45 per ISO 4589-2:1999
Low smoke	per NES 711, smoke density of 11.75
Smoke density	class F1 per NF F 16-101 IAW DIN EN 60695-2-11:2011
Low smoke toxicity	per NES 713, tested value of 1.9
Fungus rating	0 per MIL-STD-810g method 508.5, Does not support fungal growth
Tear Strength	ASTM D624, die B, 150 pounds per inch minimum on jacket material
Low outgassing	per ASTM e595 after post curing, TML .06%, CVCM .006%, WVR .02%
Resistant to fluids	per MIL-STD-810F, method 504: JP-8 per MIL-DTL-83133 (NATO type 34) MIL-H-5606 hydraulic fluid MIL-PRF-23699 lubricating oil MIL-C-85570 cleaner TT-I-735 Isopropyl alcohol AMS 1432 potassium acetate deicing/anti-icing fluid MIL-C-87252 coolant Amerex AFF fire extinguishing foam

Insulation stripping procedure

Step 1

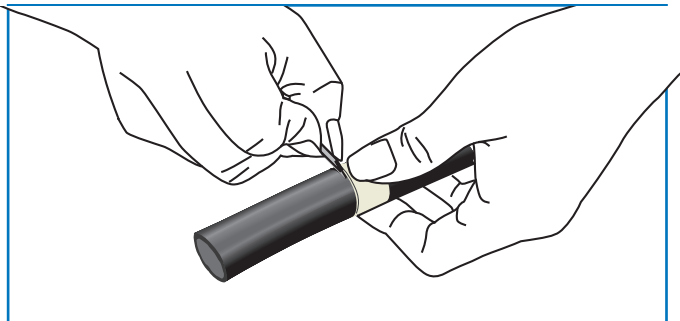
Using scale, mark off required length of insulation to be removed. Wrap tape around diameter of cable to provide a visual guide to indicate where jacket shall be scored.



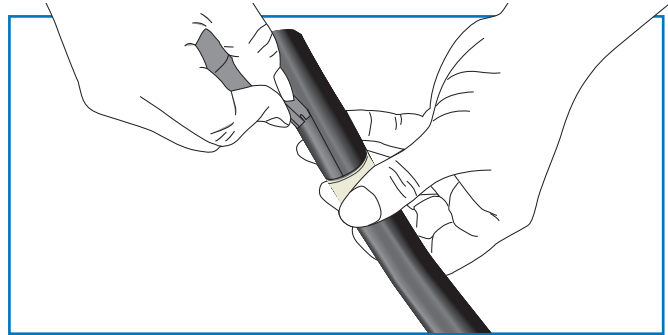
Step 2

A) Make a shallow incision (score) at the guide mark. It is not necessary to cut completely through the outer jacket. Continue scoring the insulation around the complete circumference of the cable.

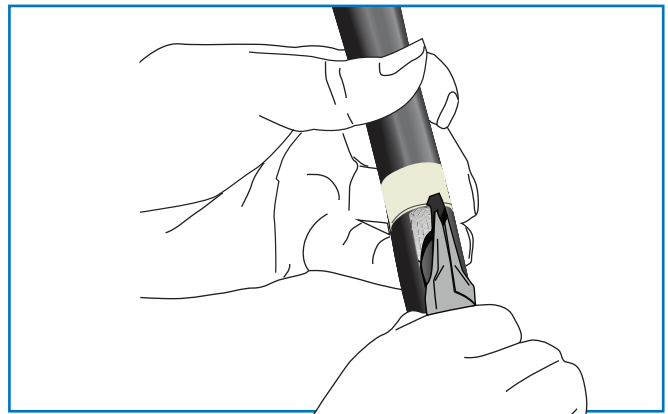
Note: when scoring insulation be sure not to cut completely through the outer material which could damage wire strands.



B) Score insulation lengthwise along the entire section of insulation to be removed.

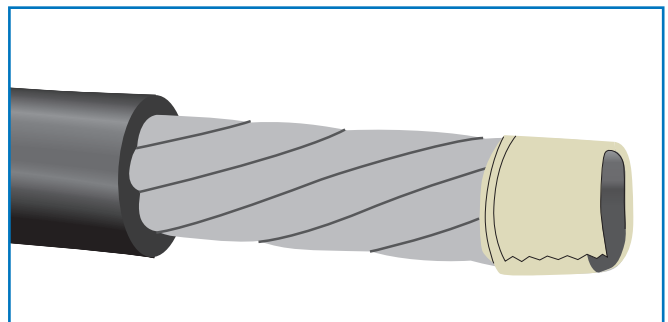


C) Using needle nose pliers, grab the insulation material where the lengthwise score meets the guide mark. Gently pull the insulation away, working downwards along the incision towards the end of the cable. Once insulation is removed wire is ready for crimp termination.



Step 3

If crimp process will not be completed immediately, wrap exposed wire strands with tape to prevent fraying.



Notes on wire crimping

Since wire gauges are defined by the cross sectional area of the metal conductor, please note the outer diameter of TurboFlex wires may be slightly larger than other wires of the same gauge. Consult the catalog pages for wire dimensions.

Note 1

Select appropriate crimp tool and die set as recommended by contact manufacturer. For optimal results, Glenair recommends the use of an indenting-type crimp die over a hex-style crimper.

Note 2

Always follow contact manufacturer specifications for minimum and maximum wire dimensions for the given contact size.

Note 3

Check TurboFlex wire-to-contact fit. The wire should fit freely but snugly into the crimp barrel. Never trim away individual strands to force-fit wire into a too-small crimp barrel.

Note 4

When crimping, hold the crimp die closed for a minimum of 8 seconds to allow adequate dwell time for wire strand deformation. Too-rapid crimping can result in a mechanically weak crimp joint.



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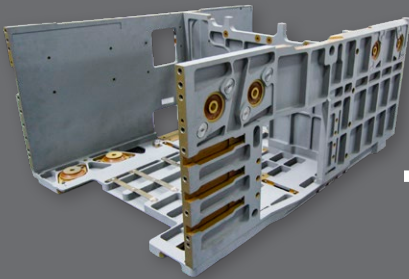
TURNKEY
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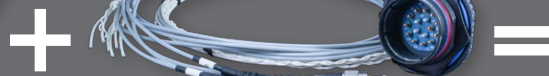
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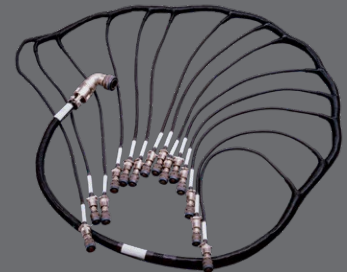
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