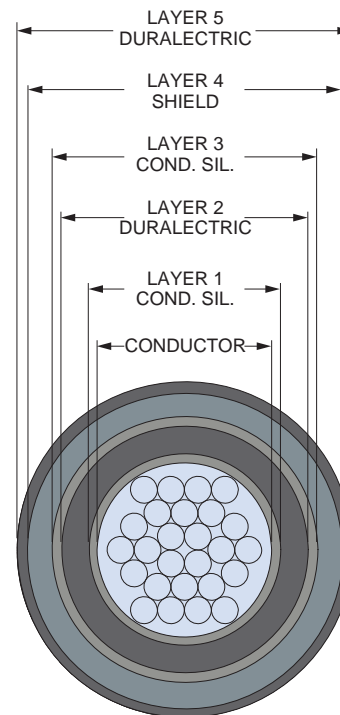


with dual Duraelectric™ D Jacket, conductive silicone, and metallic braided shielding for high-voltage/high-power applications • 961-056

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)



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

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