

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	-001 = .125" -002 = .093" -003 = .062" -004 = .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						

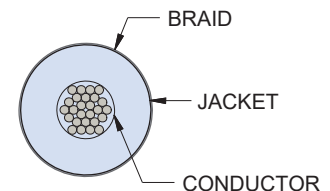
Conductor size (AWG)	Jacket Thickness in. (mm)			
	.125	.093	.062	.032
20	N/A	N/A	N/A	T
16				R
14				S
12			A	
10			B	
8			C	
6			D	
4			E	
2			F	
1/0			G	
2/0	H			
3/0	I			
4/0	J			
250 MCM	K			
450 MCM	L			

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)	
10			.27 (6.86)	
8			.37 (9.40)	
6			.41 (10.41)	
4			.48 (12.19)	
2			.55 (13.97)	
1/0			.64 (16.26)	
2/0	.76 (19.30)			
3/0	.82 (20.83)			
4/0	.89 (22.61)			
250 MCM	.94 (23.88)			
450 MCM	1.16 (29.46)			

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

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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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