



**CLEAN CUT FR**

- Cuts Easily, Neatly and Maintains a Fray Resistant End
- Expands For Ease Of Installation
- Cut And Abrasion Resistant
- Mil-202 & VW-1 Approved
- Halogen Free



**Cut Cleanly  
Scissors**

**Material**  
Polyethylene Terephthalate

**Grade**  
CCF

**Monofilament Diameter**  
.008"

**Drawing Number**  
TF001CCF-WD



[www.techflex.com](http://www.techflex.com)  
800.323.5140 • 973.300.9242 • fax: 973.300.9409  
29 Brookfield Dr • Sparta, NJ 07871

**Put-Ups**

Nominal Size	Part #	Expansion Range		Bulk Spool	Shop Spool	Retail	Clam	Bag	Available Colors	Lbs/100'
		Min	Max							
1/8"	CCF0.13	1/8"	1/4"	1,000'	100'	50'	25'	10'	2	0.40
1/4"	CCF0.25	5/32"	7/16"	1,000'	100'	50'	25'	10'	2	0.46
3/8"	CCF0.38	3/16"	5/8"	500'	100'	50'	25'	10'	2	0.74
1/2"	CCF0.50	1/4"	3/4"	500'	100'	50'	25'	10'	2	0.82
3/4"	CCF0.75	5/8"	1"	250'	75'	40'	25'	10'	2	1.11
1"	CCF1.00	3/4"	1 3/16"	250'	50'	25'	n/a	10'	2	1.24
1 1/4"	CCF1.25	1"	1 1/2"	250'	50'	25'	n/a	10'	2	1.56
1 1/2"	CCF1.50	1 1/4"	2"	250'	50'	25'	n/a	10'	2	1.85

**Scissor Cut For Field Installation, Will Not Support Combustion**

CLEAN CUT FR has all of the same qualities that make our standard CC so easy to cut and install, with the added advantage of a flame inhibitor to provide an extra level of safety in certain applications.

Under normal conditions, Clean Cut FR will quickly self-extinguish and minimize flame spread and incidental damage to surrounding components.

The combination of flame retardance, ease of installation and nearly complete coverage makes CC an ideal solution for many industrial and engineering applications.

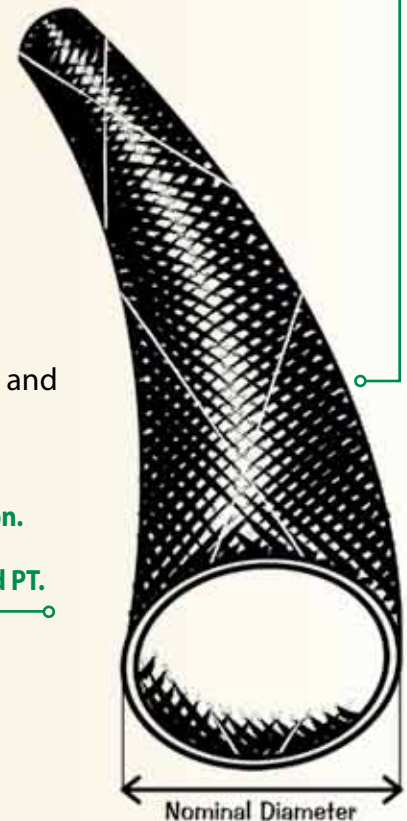
**Cuts easily and neatly with regular scissors and maintains a fray resistant end during installation. When scissor cut, the end of CC will withstand heavier handling without fraying than standard PT.**

Colors Available:



White with Black Tracer (TW) and Black with White Tracer (TB).

**Colors Available:**  
2 = TW & TB





**CLEAN CUT FR**



**Abrasion Resistance**  
**Medium**

**Abrasion Test Machine**  
**Taber 5150**

**Abrasion Test Wheel**  
**Calibrase H-18**

**Abrasion Test Load**  
**500g**

**Room Temperature**  
**80°F**

**Humidity**  
**70%**

**Very Minor Scuffing**  
**100 Test Cycles**

**Strands Frayed**  
**And Rough Surface**  
**400 Test Cycles**

**Scuffing And Several**  
**Broken Strands**  
**500 Test Cycles**

**Material Destroyed**  
**700 Test Cycles**

**Pre-Test Weight**  
**3,602.0 mg**

**Post-Test Weight**  
**3,373.9 mg**

**Test End Loss Of Mass**  
**Point Of Destruction**  
**228.1 mg**



Rating \_\_\_\_\_ **UL VW-1**



**Chemical Resistance**

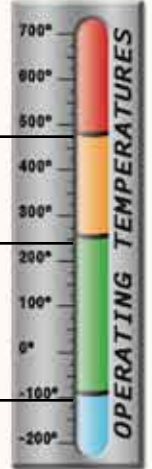
1=No Effect    4=More Affected  
 2=Little Effect    5=Severely Affected  
 3=Affected

Aromatic Solvents _____	2
Aliphatic Solvents _____	1
Chlorinated Solvents _____	3
Weak Bases _____	1
Salts _____	1
Strong Bases _____	2
Salt Water 0-S-1926 _____	1
Hydraulic Fluid MIL-H-5606 _____	1
Lube Oil MIL-L-7808 _____	1
De-Icing Fluid MIL-A-8243 _____	1
Strong Acids _____	3
Strong Oxidants _____	2
Esters/Keytones _____	2
UV Light _____	1
Petroleum _____	1
Fungus ASTM G-21 _____	1
Halogen Free _____	Yes
RoHS _____	Yes
SVHC _____	None

**Melt Point**  
 ASTM D-2117  
**482°F (250°C)**

**Maximum Continuous**  
 Mil-I-23053  
**257°F (125°C)**

**Minimum Continuous**  
**-94°F (-70°C)**



**PHYSICAL PROPERTIES**

Monofilament Diameter _____	.008
<i>ASTM D-204</i>	
Flammability Rating _____	VW-1
<i>FMVSS-302 Approved</i>	
Recommended Cutting _____	Scissor/HK
Colors _____	2
Wall Thickness _____	.024
Tensile Strength (Yarn) _____	4
<i>ASTM D-2256 Lb</i>	
Specific Gravity ASTM D-792 _____	1.38
Moisture Absorption _____	1-2
<i>% ASTM D-570</i>	
Hard Vacuum Data ASTM E-595	
TML _____	.19
CVCM _____	.04
WVR _____	.06
Smoke D-Max _____	275
<i>ASTM E-66</i>	
Outgassing _____	Med
Oxygen Index _____	31
<i>ASTM D-2863</i>	

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