



- Complies to HL2 According to the Railway Standard DIN EN 45545-2
- Cuts Easily, Neatly And Maintains a Fray Resistant End
- Expands For Ease of Installation
- Cut And Abrasion Resistant
- Mil-202 & VW-1 Approved



Cut Cleanly  
Scissors

**Material**  
Polyethylene Terephthalate

**Grade**  
CCF

**Monofilament Diameter**  
.008"

**Drawing Number**  
TF001CCF-WD

Nominal Size	Part #	Expansion Range		Bulk Spool	Shop Spool	Available Colors	Lbs/100'
		Min	Max				
1/8"	CCF0.13	1/8"	1/4"	1,000'	100'	2	0.40
1/4"	CCF0.25	5/32"	7/16"	1,000'	100'	2	0.46
3/8"	CCF0.38	3/16"	5/8"	500'	100'	2	0.74
1/2"	CCF0.50	1/4"	3/4"	500'	100'	2	0.82
3/4"	CCF0.75	5/8"	1"	250'	75'	2	1.11
1"	CCF1.00	3/4"	1 3/16"	250'	50'	2	1.24
1 1/4"	CCF1.25	1"	1 1/2"	250'	50'	2	1.56
1 1/2"	CCF1.50	1 1/4"	2"	250'	50'	2	1.85
1 3/4"	CCF1.75TB	1 1/2"	2 1/8"	200'	50'	TB	2.30
2"	CCF2.00TB	1 3/4"	2 1/2"	200'	50'	TB	2.80

### 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.

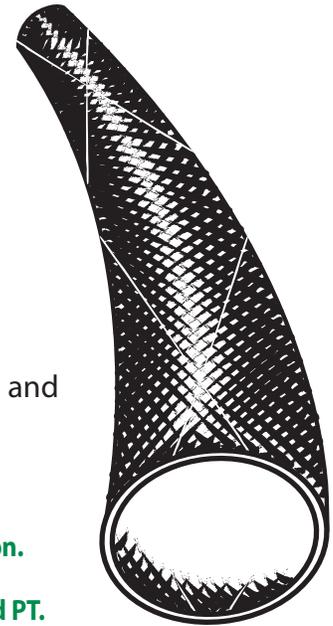
Cuts easily and neatly with regular scissors and maintains a fray resistant end during installation. When scissor cut, the end of CC will withstand heavier handling without fraying than standard PT.

Colors Available:



White w/Black Tracer (TW) and Black w/White Tracer (TB).

Colors Available:  
2 = TW & TB





# ABRASION FLAMMABILITY

**Abrasion Resistance**  
**Medium**

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

**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**

# CHEMICAL RESISTANCE

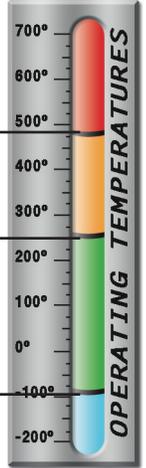
1=No Effect      4=More Affected  
2=Little Effect    5=Severely Affected  
3=Affected

Aromatic Solvents _____	2
Aliphatic Solvents _____	1
Chlorinated Solvents _____	3
Weak Bases _____	1
Salts _____	1
Strong Bases _____	2
Salt Water <i>0-5-1926</i> _____	1
Hydraulic Fluid <i>MIL-H-5606</i> _____	1
Lube Oil <i>MIL-L-7808</i> _____	1
De-Icing Fluid <i>MIL-A-8243</i> _____	1
Strong Acids _____	3
Strong Oxidants _____	2
Esters/Ketones _____	2
UV Light _____	1
Petroleum _____	1
Fungus <i>ASTM G-211</i> _____	
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 <i>ASTM D-792</i> _____	1.38
Moisture Absorption % _____	.1-2
<i>ASTM D-570</i>	
Hard Vacuum Data _____	
<i>ASTM E-595</i>	
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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