

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

				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.

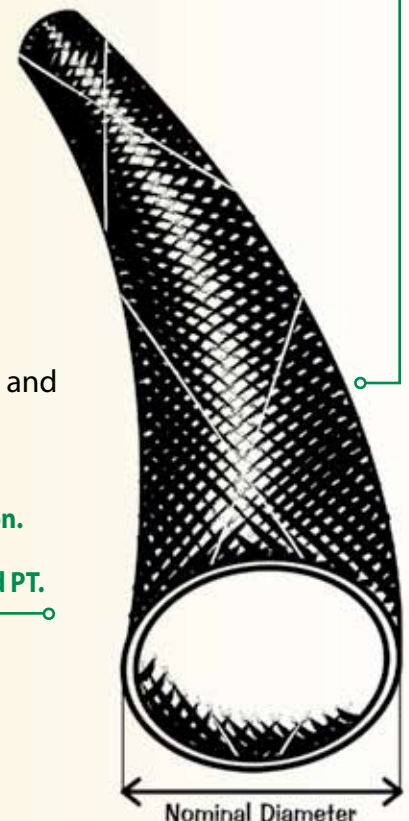
Cuts easily and neatly with regular scissors and maintains a fray resistant end during installation. When scissor cut, the end of CC will withstand heavier handling without fraying than standard PT.

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)

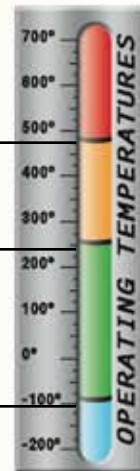
Maximum Continuous

Mil-I-23053

257°F (125°C)

Minimum Continuous

-94°F (-70°C)



PHYSICAL PROPERTIES

Monofilament Diameter _____ **.008**
ASTM D-204

Flammability Rating _____ **VW-1**
FMVSS-302 Approved

Recommended Cutting _____ **Scissor/HK**

Colors _____ **2**

Wall Thickness _____ **.024**

Tensile Strength (Yarn) _____ **4**
ASTM D-2256 Lbs

Specific Gravity ASTM D-792 _____ **1.38**

Moisture Absorption _____ **.1-.2**
% ASTM D-570

Hard Vacuum Data ASTM E-595 at 10-5 torr

TML _____ **.19**

CVCM _____ **.04**

WVR _____ **.06**

Smoke D-Max _____ **275**
ASTM E-662

Outgassing _____ **Med**

Oxygen Index _____ **31**
ASTM D-2863