### ADVANCED ENGINEERING Technical Data Sheet





- 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



Scissors

#### Material **Polyethylene Terepthalate**

Grade CCF

**Monofilament Diameter** .008"

**Drawing Number** TF001CCF-WD



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Nominal	Part	Expansio	on Range	Bulk	Shop	Retail	Clam	Bag	Available	Lbs/
Size	#	Min	Max	Spool	Spool				Colors	100′
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

Put-Ups

#### 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.

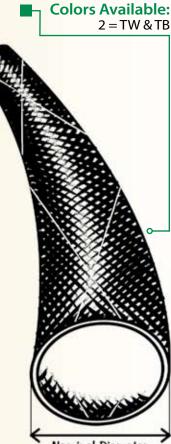
The combination of flame retardance, ease of installation and nearly complete coverage makes CC an ideal solution for many industrial and engineering applications.

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).



Nominal Diameter





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## 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** 

Scuffina 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
J	2=Little Effect	5=Severely Affec
	2_Affortad	-

RoHS

SVHC

2=Little Effect 5=Severely Affect	cted
Aromatic Solvents	_2
Aliphatic Solvents	
Chlorinated Solvents	
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	
Petroleum	
Fungus ASTM G-21	
Halogen Free	

	Contract Contract
Melt Point	800° _
ASTM D-2117	500° -
482°F (250°C) —	400*
Maximum Continuous	
Mil-I-23053	300-
257°F (125°C)	200*
	100*
	0.
Minimum Continuous	10 10

Minimum Continuous  $-94^{\circ}F$  (-70°C)

# PHYSICAL PROPERTIES

Monofilament Diameter ASTM D-204	.008
Flammability Rating FMVSS-302 Approved	VW-1
Recommended CuttingSci	ssor/HK
Colors	2
Wall Thickness	024
Tensile Strength (Yarn) ASTM D-2256 Lbs	4
Specific Gravity ASTM D-792	1.38
Moisture Absorption % ASTM D-570	12
Hard Vacuum Data ASTM E-595 at	10-5 torr
TML	19
CVCM	.04
WVR	.06
Smoke D-Max	275
Outgassing	Med
Oxygen Index ASTM D-2863	31

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TEMPERATURES

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-100\*

200\*

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Yes

None