### ADVANCED ENGINEERING **Technical Data Sheet**

# **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



Scissors

### Material **Polyethylene Terepthalate**

Grade CCF

**Monofilament Diameter** .008"

**Drawing Number** TF001CCF-WD



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				Fut-ops						
Nominal	Part #	<b>Expansion Range</b>		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′	<u>50'</u>	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 gualities 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.

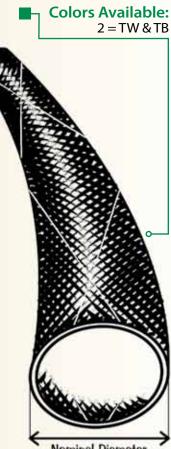
The combination of flame retardance, ease of installation and nearly complete coverage makes CC an ideal solution for many industrial and engineering applications.

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).











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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



UL VW-1 Rating

## Chemical Resistance

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)-400\* Maximum Continuous 300\* Mil-I-23053 200\* 257°F (125°C) 100\*

Minimum Continuous -94°F (-70°C)

Monofilament Diameter	008
Flammability Rating FMVSS-302 Approved	_VW-1
Recommended CuttingScis	sor/HK
Colors	2
Wall Thickness	024
Tensile Strength (Yarn) ASTM D-2256 Lb	4
Specific Gravity ASTM D-792	_1.38
Moisture Absorption % ASTM D-570	12
Hard Vacuum Data ASTM E-595	
TML	19
CVCM	04
WVR	.06
Smoke D-Max ASTM E-66	275
Outgassing	Med
Oxygen Index ASTM D-2863	31

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TEMPERATURES

OPERATING

100\*

200\*

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1=No Effect 4=More Affected