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

Cut Cleanly
Scissors

Material
Polyethylene Terepthalate

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.

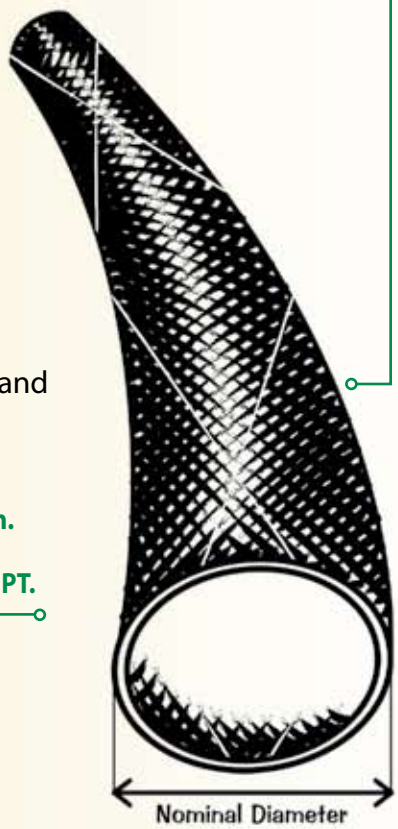
The combination of flame retardance, ease of installation and nearly complete coverage makes CC an ideal solution for many industrial and engineering applications.

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



BTX® | TECHFLEX Braided Sleeving Products

ABYC VW-1

BTX Technologies, Inc. | www.btx.com | 800.666.0996 | info@btx.com

ADVANCED ENGINEERING
Technical Data Sheet

CLEAN CUT FR

CLEAN CUT FR FLAME RETARDANT

ABRASION

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

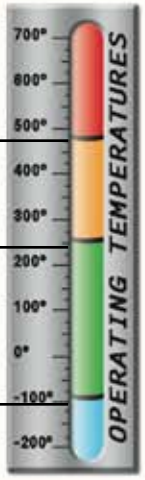
FLAMMABILITY

Rating _____ UL VW-1

Melt Point
ASTM D-2117
482°F (250°C)

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

Minimum Continuous
-94°F (-70°C)



Chemical Resistance

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

PHYSICAL PROPERTIES

Monofilament Diameter *ASTM D-204*	.008
Flammability Rating *FMVSS-302 Approved*	VW-1
Recommended Cutting	Scissor/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*	.1-.2
Hard Vacuum Data *ASTM E-595 at 10-5 torr*	
TML	.19
CVCM	.04
WVR	.06
Smoke D-Max *ASTM E-662*	275
Outgassing	Med
Oxygen Index *ASTM D-2863*	31

ABYC VW-1

www.techflex.com

BTX® | TECHFLEX Braided Sleeving Products