



## FLEXO<sup>®</sup> CLEAN CUT<sup>®</sup> FR

### SCISSOR CUT FOR FIELD INSTALLATION · WILL NOT SUPPORT COMBUSTION COMPLIES TO HL2 ACCORDING TO THE RAILWAY STANDARD DIN EN 45545-2

CLEAN CUT<sup>®</sup> 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<sup>®</sup> 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.

#### SIZING CHART

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

\*Put-Ups: "M" = Shop Spool and "L" = Bulk Spool



#### FEATURES

Material	Polyethylene Terephthalate
Grade	CCF
Monofilament Diameter	.008"
Drawing Number	TF001CCF-WD
Cutting	Scissors/Hot Knife

#### COLORS



White w/Black Tracer (TW), Black w/White Tracer (TB)

#### CERTIFICATIONS





### ABRASION

Abrasion Resistance	<b>MEDIUM</b>
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
Scuffing & 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

### PHYSICAL PROPERTIES

Monofilament Diameter (ASTM D-204)	.008"
Flammability Rating (FMVSS-302 Approved)	VW-1
Recommended Cutting	Scissors/Hot Knife
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	Medium
Oxygen Index (ASTM D-2863)	31

### FLAMMABILITY

Rating	UL VW-1
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### OPERATING TEMPERATURES

Melt Point (ASTM D-2117)	482°F / 250°C
Maximum Continuous (Mil-I-23053)	257°F / 125°C
Minimum Continuous (Mil-I-23053)	-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/Ketones	2
UV Light	1
Petroleum	1
Fungus (ASTM G-21)	
Halogen Free	Yes
RoHS	Yes
SVHC	None