



- Complies to HL2 According to the Railway Standard DIN EN 45545-2
- Cuts Easily, Neatly And Maintains a Fray Resistant End
- Expands For Ease of Installation
- Cut And Abrasion Resistant
- Mil-202 & VW-1 Approved



Cut Cleanly  
Scissors

**Material**  
Polyethylene Terephthalate

**Grade**  
CCF

**Monofilament Diameter**  
0,20mm

**Drawing Number**  
TF001CCF-WD

| Nominal Size | Part #    | Expansion Range |        | Bulk Spool | Shop Spool | Available Colors | Kgs/ 100m |
|--------------|-----------|-----------------|--------|------------|------------|------------------|-----------|
|              |           | Min             | Max    |            |            |                  |           |
| 3,2mm        | CCF0.13   | 3,2mm           | 6,4mm  | 304,8m     | 30,5m      | 2                | 0,60      |
| 6,4mm        | CCF0.25   | 4,0mm           | 11,1mm | 304,8m     | 30,5m      | 2                | 0,68      |
| 9,5mm        | CCF0.38   | 4,8mm           | 15,9mm | 152,4m     | 30,5m      | 2                | 1,10      |
| 12,7mm       | CCF0.50   | 6,4mm           | 19,1mm | 152,4m     | 30,5m      | 2                | 1,22      |
| 19,1mm       | CCF0.75   | 15,9mm          | 25,4mm | 76,2m      | 22,9m      | 2                | 1,65      |
| 25,4mm       | CCF1.00   | 19,1mm          | 30,2mm | 76,2m      | 15,2m      | 2                | 1,85      |
| 31,8mm       | CCF1.25   | 25,4mm          | 38,1mm | 76,2m      | 15,2m      | 2                | 2,32      |
| 38,1mm       | CCF1.50   | 31,8mm          | 50,8mm | 76,2m      | 15,2m      | 2                | 2,75      |
| 44,5mm       | CCF1.75TB | 38,1mm          | 54,0mm | 61,0m      | 15,2m      | TB               | 3,45      |
| 50,8mm       | CCF2.00TB | 44,5mm          | 63,5mm | 61,0m      | 15,2m      | TB               | 4,20      |

### 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 & 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.

Colors Available:



White w/Black Tracer (TW) and Black w/White Tracer (TB).

### Put-Ups

Colors Available:  
2 = TW & TB



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FAR-25



VW-1



DIN EN  
45545-2





## ABRASION FLAMMABILITY

**Abrasion Resistance**  
Medium

Rating \_\_\_\_\_ UL VW-1

**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

## CHEMICAL RESISTANCE

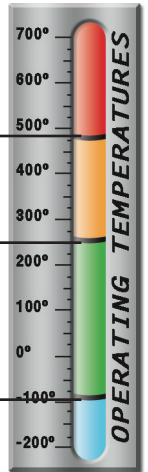
1=No Effect      4=More Affected  
2=Little Effect    5=Severely Affected  
3=Affected

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/Ketones \_\_\_\_\_ 2  
UV Light \_\_\_\_\_ 1  
Petroleum \_\_\_\_\_ 1  
Fungus ASTM G-211 \_\_\_\_\_  
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 \_\_\_\_\_ 0,20mm  
ASTM D-204  
Flammability Rating \_\_\_\_\_ VW-1  
FMVSS-302 Approved  
Recommended Cutting \_\_\_\_\_ Scissor/HK  
Colors \_\_\_\_\_ 2  
Wall Thickness \_\_\_\_\_ 0,61mm  
Tensile Strength (Yarn) \_\_\_\_\_ 4  
ASTM D-2256 Lb  
Specific Gravity ASTM D-792 \_\_\_\_\_ 1.38  
Moisture Absorption % \_\_\_\_\_ .1-2  
ASTM D-570  
Hard Vacuum Data \_\_\_\_\_  
ASTM E-595  
TML \_\_\_\_\_ .19  
CVCM \_\_\_\_\_ .04  
WVR \_\_\_\_\_ .06  
Smoke D-Max \_\_\_\_\_ 275  
ASTM E-66  
Outgassing \_\_\_\_\_ Med  
Oxygen Index \_\_\_\_\_ 31  
ASTM D-2863