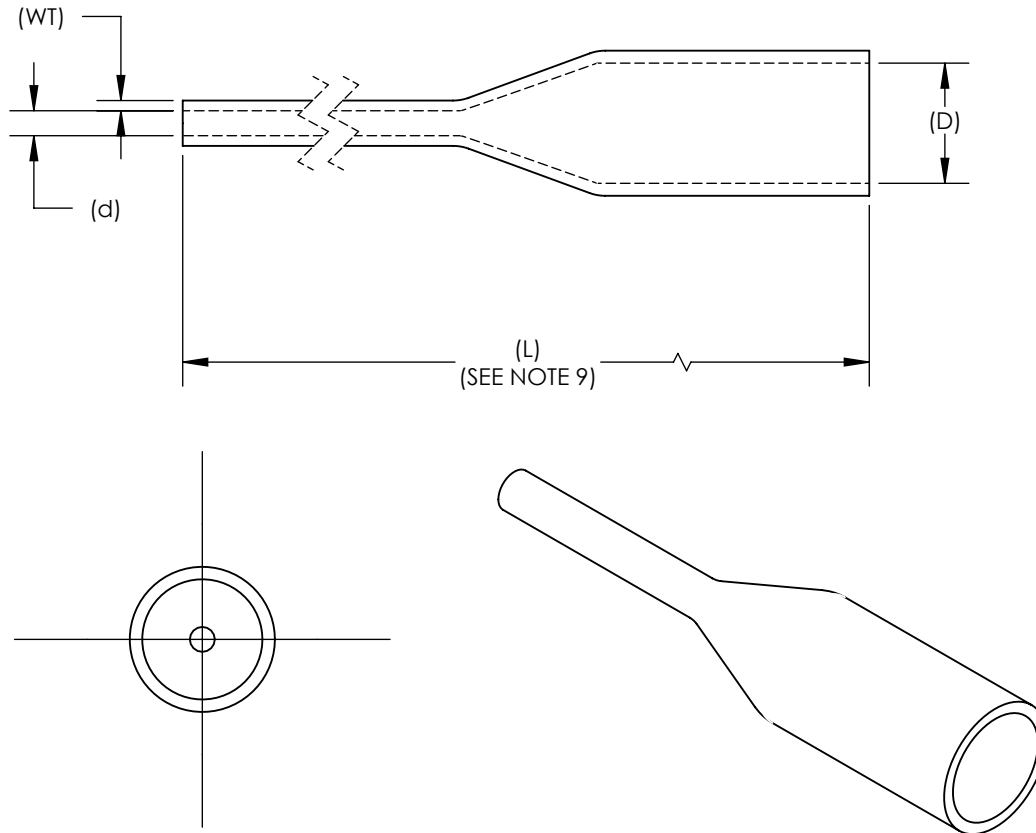
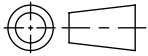


SW2015

**NOTES:**

1. SHRINK RATIO 2:1
2. LONGITUDINAL CHANGE AFTER SHRINKAGE $\pm 5\%$
3. MINIMUM SHRINK TEMPERATURE 212°F (100°C)
4. OPERATING TEMPERATURES -67°F TO 275°F (-55°C TO 135°C)
5. DIELECTRIC STRENGTH $>20\text{kV/MM}$ ACCORDING TO ASTM D 150
6. RoHS
7. FLAMMABILITY UL224 600V VW-1 (EXCEPT CLEAR)
8. MEETS SAE-AMS-DTL-23053/5 CLASS 1 & 3
9. CONSULT FACTORY OR WEBSITE FOR AVAILABLE LENGTHS

Material
POLYOLEFIN, CROSS
LINKED

Units: inches

Dimension without
tolerances details to:
.xxxx = ± 0.0005
.xxx = ± 0.005
.xx = ± 0.01
.x = ± 0.03
None = ± 0.06
 $\angle = \pm 0.5^{\circ}$
Dimension Formatted in [mm]

The copyright of this
drawing is reserved by
HellermannTyton. It is
issued on condition that it is
not reproduced, copied, or
disclosed to a third party,
either wholly or in part,
without the consent of
HellermannTyton.

Drawn

GRW

12/9/2016

Approved

KAC

12/9/2016

HellermannTyton

North America
Email: corp@htamericas.com
Web: www.hellermann.tyton.com

Article/Type-No

TFN21 SERIES

Title

**HEAT SHRINK TUBING, 2:1 SHRINK
RATIO, NON-ADHESIVE THIN WALL**

Drawing-No

PRODUCTION : Phase

16-1991-001-CSU

Scale

Project Number

PRP 16-1991

Format AH

Sheet 1/1

Revision level

Drawing

State

Part

Revision Record

Changed

Date

Approved

Date

00.0

Design Release

SEE ECN# 013647

GRW

12/9/2016

KAC

12/9/2016

Type	Shrink Ratio	Nominal Trade Size	Supplied Diameter (D)		Recovered Diameter (d)		Wall Thickness Recovered (WT)		Color
		in	in	mm	in	mm	in	mm	
Mini Reels: 2:1 Thin Wall									
TFN21 1.6/0.8 CL	2:1	1/16	0.063	1.6	0.032	0.8	0.016	0.40	Clear
TFN21 1.6/0.8 BK	2:1	1/16	0.063	1.6	0.032	0.8	0.016	0.40	Black
TFN21 2.4/1.2 CL	2:1	3/32	0.094	2.4	0.047	1.2	0.019	0.48	Clear
TFN21 2.4/1.2 CL	2:1	3/32	0.094	2.4	0.047	1.2	0.019	0.48	Black
TFN21 3.2/1.6 CL	2:1	1/8	0.125	3.2	0.063	1.6	0.019	0.48	Clear
TFN21 3.2/1.6 RD	2:1	1/8	0.125	3.2	0.063	1.6	0.019	0.48	Red
TFN21 3.2/1.6 BU	2:1	1/8	0.125	3.2	0.063	1.6	0.019	0.48	Blue
TFN21 4.8/2.4 CL	2:1	3/16	0.188	4.8	0.094	2.4	0.019	0.48	Clear
TFN21 4.8/2.4 RD	2:1	3/16	0.188	4.8	0.094	2.4	0.019	0.48	Red
TFN21 4.8/2.4 BU	2:1	3/16	0.188	4.8	0.094	2.4	0.019	0.48	Blue
TFN21 6.4/3.2 CL	2:1	1/4	0.25	6.4	0.125	3.2	0.022	0.56	Clear
TFN21 6.4/3.2 RD	2:1	1/4	0.25	6.4	0.125	3.2	0.022	0.56	Red
TFN21 6.4/3.2 BU	2:1	1/4	0.25	6.4	0.125	3.2	0.022	0.56	Blue
TFN21 9.5/4.8 CL	2:1	3/8	0.375	9.5	0.188	4.8	0.024	0.62	Clear
TFN21 9.5/4.8 RD	2:1	3/8	0.375	9.5	0.188	4.8	0.024	0.62	Red
TFN21 9.5/4.8 BU	2:1	3/8	0.375	9.5	0.188	4.8	0.024	0.62	Blue
TFN21 12.7/6.4 CL	2:1	1/2	0.5	12.7	0.25	6.4	0.024	0.62	Clear
TFN21 12.7/6.4 RD	2:1	1/2	0.5	12.7	0.25	6.4	0.024	0.62	Red
TFN21 12.7/6.4 BU	2:1	1/2	0.5	12.7	0.25	6.4	0.024	0.62	Blue
TFN21 19.1/9.5 CL	2:1	3/4	0.75	19.1	0.38	9.5	0.027	0.68	Clear
TFN21 19.1/9.5 RD	2:1	3/4	0.75	19.1	0.38	9.5	0.027	0.68	Red
TFN21 19.1/9.5 BU	2:1	3/4	0.75	19.1	0.38	9.5	0.027	0.68	Blue
TFN21 25.4/12.7 CL	2:1	1	1	25.4	0.5	12.7	0.034	0.87	Clear
TFN21 25.4/12.7 RD	2:1	1	1	25.4	0.5	12.7	0.034	0.87	Red
TFN21 25.4/12.7 BU	2:1	1	1	25.4	0.5	12.7	0.034	0.87	Blue
Bulk Reels: 2:1 Thin Wall									
TFN21 3.2/1.6 BK	2:1	1/8	0.125	3.2	0.063	1.6	0.019	0.48	Black
TFN21 4.8/2.4 BK	2:1	3/16	0.188	4.8	0.094	2.4	0.019	0.48	Black
TFN21 6.4/3.2 BK	2:1	1/4	0.25	6.4	0.125	3.2	0.022	0.56	Black
TFN21 9.5/4.8 BK	2:1	3/8	0.375	9.5	0.188	4.8	0.024	0.62	Black
TFN21 12.7/6.4 BK	2:1	1/2	0.5	12.7	0.25	6.4	0.024	0.62	Black
TFN21 19.1/9.5 BK	2:1	3/4	0.75	19.1	0.38	9.5	0.027	0.68	Black
TFN21 25.4/12.7 BK	2:1	1	1	25.4	0.5	12.7	0.034	0.87	Black
TFN21 38.1/19.1 BK	2:1	1-1/2	1.5	38.1	0.75	19.1	0.039	1.00	Black
4 Foot Sticks: 2:1 Thin Wall									
TFN21-ST 2.4/1.2 BK	2:1	3/32	0.094	2.4	0.047	1.2	0.019	0.48	Black
TFN21-ST 3.2/1.6 BK	2:1	1/8	0.125	3.2	0.063	1.6	0.019	0.48	Black
TFN21-ST 4.8/2.4 BK	2:1	3/16	0.188	4.8	0.094	2.4	0.019	0.48	Black
TFN21-ST 6.4/3.2 BK	2:1	1/4	0.250	6.4	0.125	3.2	0.022	0.56	Black
TFN21-ST 9.5/4.8 BK	2:1	3/8	0.375	9.5	0.188	4.8	0.024	0.62	Black
TFN21-ST 12.7/6.4 BK	2:1	1/2	0.500	12.7	0.250	6.4	0.024	0.62	Black
TFN21-ST 19.1/9.5 BK	2:1	3/4	0.750	19.1	0.375	9.5	0.027	0.68	Black
TFN21-ST 25.4/12.7 BK	2:1	1	1.000	25.4	0.500	12.7	0.034	0.87	Black