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FEP 1.3:1 Heat Shrink Tubing

Fluorinated Ethylene Propylene (FEP) heat shrink tubing is a widely used, lower cost alternative to PTFE (Teflon). FEP is sometimes called Teflon (even though that is the wrong name for it). FEP has similar dielectric and frictional properties to PTFE. Although PTFE has superior chemical resistance to FEP, FEP can be used in most applications suited for PTFE. The major difference between the two materials is the continuous use temperature. FEP heat shrinkable tubing is suitable for continuous use at temperatures up to 204°C. FEP heat shrink conforms to Mil-I-23053/11, and UL 94 (V0, VW-1).

Another advantage FEP has over PTFE is its much lower shrink temperature. While PTFE needs a temperature of over 300°C to shrink it, FEP heat shrink can shrink as low as 190°C. This can be a significant advantage when used in conjunction with temperature sensitive components.

Features

- Continuous operating temperature 400°F (204°C)
- Outstanding chemical resistance in extreme environments
- FDA and USP Class VI approved
- Lower gas permeability than PTFE
- Increased translucence compared to PTFE
- Excellent transmission of UV rays
- Excellent electrical insulation values
- Flame Rating: UL94 and VW-1
- Limiting Oxygen Index (LOI): greater than 95
- Gamma, ETO, e-beam and autoclave sterilizable
- Mil Spec approved (AMS-DTL-23053/11)

Dimension

Internal PN	Size	Mil Spec #	Manufacturer Part #	ID Before Shrink	ID After Shrink	Wall After Shrink
HSFEP13-024G-CL	24 AWG	AMS-DTL-23053/11-101-C	HSFEP13-024G	0.031"	0.027"	0.008"
HSFEP13-022G-CL	22 AWG	AMS-DTL-23053/11-102-C	HSFEP13-022G	0.036"	0.032"	0.008"
HSFEP13-020G-CL	20 AWG	AMS-DTL-23053/11-103-C	HSFEP13-020G	0.045"	0.039"	0.008"
HSFEP13-018G-CL	18 AWG	AMS-DTL-23053/11-104-C	HSFEP13-018G	0.060"	0.049"	0.008"
HSFEP13-016G-CL	16 AWG	AMS-DTL-23053/11-105-C	HSFEP13-016G	0.075"	0.061"	0.009
HSFEP13-014G-CL	14 AWG	AMS-DTL-23053/11-106-C	HSFEP13-014G	0.092"	0.072"	0.009"
HSFEP13-012G-CL	12 AWG	AMS-DTL-23053/11-107-C	HSFEP13-012G	0.115"	0.089"	0.009"
HSFEP13-010G-CL	10 AWG	AMS-DTL-23053/11-108-C	HSFEP13-010G	0.141"	0.114"	0.010"
HSFEP13-009G-CL	9 AWG	AMS-DTL-23053/11-109-C	HSFEP13-009G	0.158"	0.124"	0.010"

Internal PN	Size	Mil Spec #	Manufacturer Part #	ID Before Shrink	ID After Shrink	Wall After Shrink
HSFEP13-008G-CL	8 AWG	AMS-DTL-23053/11-110-C	HSFEP13-008G	0.180"	0.143"	0.010"
HSFEP13-007G-CL	7 AWG	AMS-DTL-23053/11-111-C	HSFEP13-007G	0.197"	0.158"	0.011"
HSFEP13-006G-CL	6 AWG	AMS-DTL-23053/11-112-C	HSFEP13-006G	0.225"	0.180"	0.011"
HSFEP13-005G-CL	5 AWG	AMS-DTL-23053/11-113-C	HSFEP13-005G	0.248"	0.198"	0.011"
HSFEP13-004G-CL	4 AWG	AMS-DTL-23053/11-114-C	HSFEP13-004G	0.290"	0.226"	0.011"
HSFEP13-003G-CL	3 AWG	AMS-DTL-23053/11-115-C	HSFEP13-003G	0.310"	0.249"	0.011"
HSFEP13-002G-CL	2 AWG	AMS-DTL-23053/11-116-C	HSFEP13-002G	0.365"	0.280"	0.011"
HSFEP13-001G-CL	1 AWG	AMS-DTL-23053/11-117-C	HSFEP13-001G	0.400"	0.311"	0.012"
HSFEP13-000G-CL	0 AWG	AMS-DTL-23053/11-118-C	HSFEP13-000G	0.440"	0.349"	0.012"
HSFEP13-0375-CL	3/8"	AMS-DTL-23053/11-119-C	HSFEP13-0375	0.500"	0.383"	0.015"
HSFEP13-0438-CL	7/16"	AMS-DTL-23053/11-120-C	HSFEP13-0438	0.580"	0.448"	0.020"
HSFEP13-050-CL	1/2"	AMS-DTL-23053/11-121-C	HSFEP13-050	0.666"	0.510"	0.020"
HSFEP13-0625-CL	5/8"	AMS-DTL-23053/11-122-C	HSFEP13-0625	0.830"	0.637"	0.025"
HSFEP13-075-CL	3/4"	AMS-DTL-23053/11-123-C	HSFEP13-075	1.000"	0.764"	0.030"
HSFEP13-100-CL	1"	AMS-DTL-23053/11-126-C	HSFEP13-100	1.330"	1.020"	0.035"
HSFEP13-1125-CL	1-1/8"	AMS-DTL-23053/11-127-C	HSFEP13-1125	1.500"	1.145"	0.035"