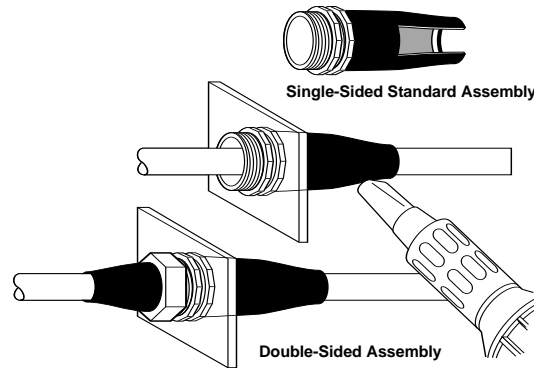


Product Facts

- Screened or unshielded cables
- One-piece part
- Each size covers a wide cable range
- Light weight
- Single- or double-sided assembly



Applications

Provides environmental sealing and screen continuity to a bulkhead as a cable passes through. The assembly consists of a specifically designed locknut and O-ring seal, onto the rear of which is pre-installed a Raychem heat-shrinkable molded part. Feedthrough installation is simply effected by tightening the locknut on the rear of the bulkhead, which compresses the O-ring and ensures that a small knife-edge provides electrical contact between the assembly and the bulkhead.

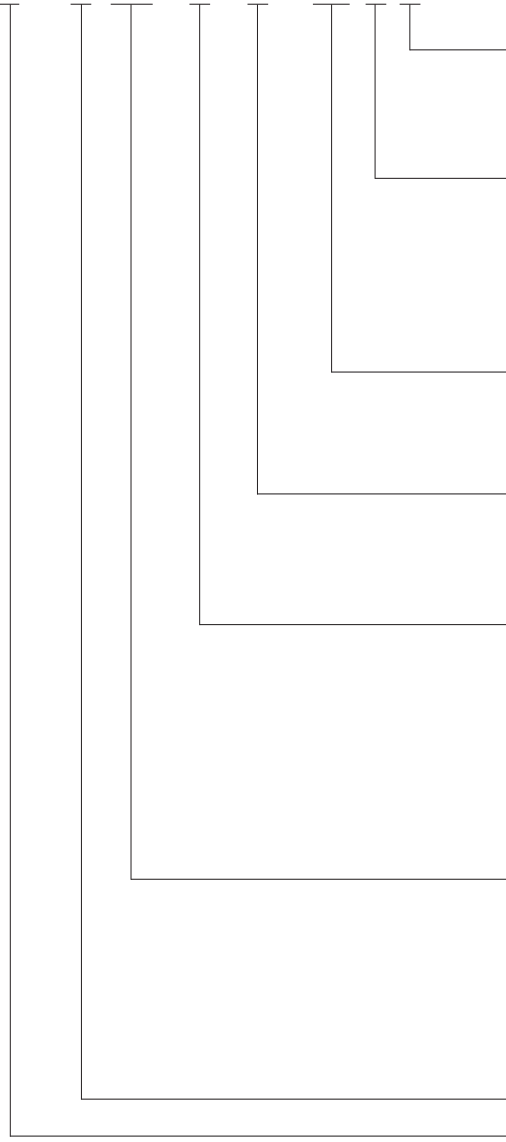
When heat is applied to the molded part in the form of hot air, a seal to the cable is formed with hot-melt adhesive. When specified for screened cables, the assembly contains a conductive adhesive, which provides electrical continuity between the screen and the bulkhead via Raychem molded parts.

These molded parts are shielded (screened), heat-shrinkable parts providing shielding levels better than 80 dB at 100 MHz.

Available in:	Americas	Europe	Asia Pacific
	■	■	■

Part Numbering System

TCFX* - 12 62C - 0 - 20 - 100 A H



Adhesive System

E = Epoxy (consult factory)
 H = S-1030 hot melt
 W = S-1048 hot melt

Molded Part Type

A = Straight unscreened
 B = 90° unscreened
 C = Straight screened
 D = 45° screened
 E = 90° screened (16–36 only)

Molded Part Material

-25 = Semirigid elastomer
 -100 = Low fire hazard

Thread Length

(may be three digits if more than 95 mm required)
 20 mm standard
 5 mm increments, minimum 15 mm

Assembly Modification Code

0 = Standard assembly
 1 = Double-sided assembly (only straight unshielded boot available on double nut)
 2 = Same as 1 but with potting ports
 3 = Locknut
 4 = 60° metalwork
 5 = Same as 0 but with potting ports

Feedthrough Material/Finish

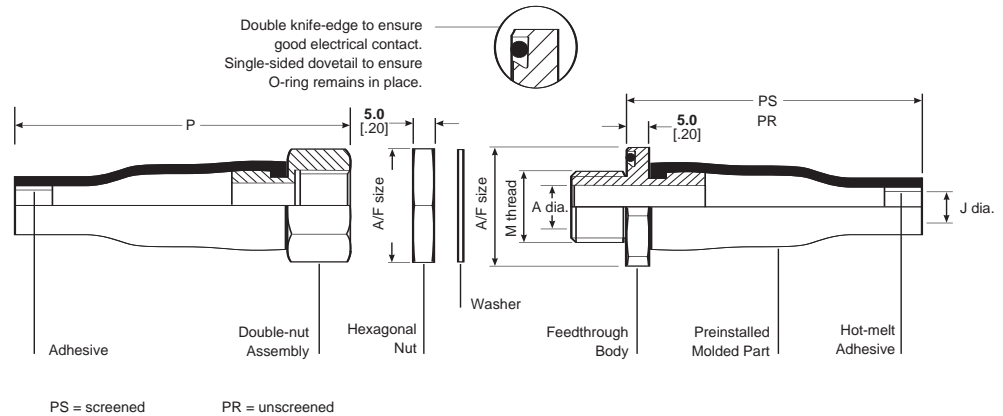
01W = Nickel aluminium bronze, shotblast
 19B = Aluminium-alloy-plated cadmium, olive drab, over electroless nickel
 19C = Aluminium-alloy-plated electroless nickel
 19Q = Aluminium-alloy-plated zinc cobalt
 62C = Stainless-steel-plated electroless nickel

Feedthrough Size

Part Description

TCFS uses a full-length molded part
 TCFR uses a shortened molded part (only available on straight assemblies)

*See Molded Parts Materials Section 4 for -25 and -100 information.



Product Dimensions

Feed-through Size	J Diameter*					M Thread	A Dia. Max.	A/F Body	A/F Nut	P ±10% Unscreened			Hole Size
	Unshielded		Shielded							P	PS	PR	
	a Min.	b Max.	a Min. -25S	-100S	b Max.								
TCFS/R-12	11 [.43]	5.6 [.22]	7.5 [.30]	6.5 [.26]	5.0 [.20]	M12 x 1.5	7.5 [.30]	24 [.95]	17 [.67]	52	50	43	13.0 [.51]
TCFS/R-16	15 [.59]	5.9 [.23]	12.5 [.49]	8.5 [.33]	6.0 [.24]	M16 x 1.5	10.2 [.40]	29 [1.14]	22 [.87]	57	65	48	17.0 [.67]
TCFS/R-20	19 [.75]	7.1 [.28]	14.5 [.57]	10.5 [.41]	7.2 [.28]	M20 x 1.5	14.0 [.55]	34 [1.34]	27 [1.06]	61	77	52	21.0 [.83]
TCFS/R-24	23 [.90]	8.4 [.33]	18.5 [.73]	16.5 [.65]	8.5 [.33]	M24 x 1.5	19.2 [.76]	38 [1.50]	30 [1.18]	74	90	65	25.0 [.98]
TCFS/R-30	29 [1.14]	9.9 [.39]	23.5 [.93]	20.5 [.81]	10.0 [.39]	M30 x 1.5	24.2 [.95]	48 [1.89]	36 [1.48]	73	115	64	31.0 [1.22]
TCFS/R-36	35 [1.38]	15.7 [.62]	32.5 [1.28]	28.5 [1.12]	15.8 [.62]	M36 x 1.5	30.2 [1.49]	52 [2.05]	41 [1.61]	104	140	95	37.0 [1.46]
TCFR-48	45 [1.77]	16.8 [.66]	38.5 [1.52]	35.5 [1.40]	N/A	M48 x 1.5	40.2 [1.58]	67 [2.64]	55 [2.17]	144	110	135	50.0 [1.97]

*a = Supplied dimension
b = Dimension after free recovery