

# Cable Grommets



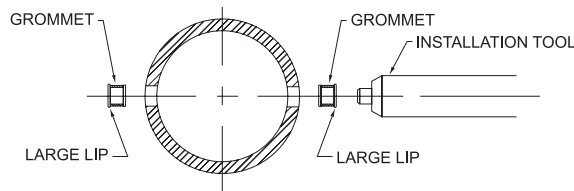
Cable grommets are offered for popular cable diameters of 1/8", 3/16" and 1/4". **They help prevent rust in exterior applications or elsewhere where moisture is a factor**, by providing a barrier between the cable and the painted or powder-coated surface through which the cable is drawn when being installed. Ultra-tec cable grommets are installed (after the paint or powder coating is applied) into holes in intermediate posts, cable braces and, in the case of the Invisiware radius ferrule, Push-Lock, and Pull-Lock fittings into the end post holes through which the cable exits. They are offered in black UV resistant Delrin®.

Delrin® is a registered trademark of E.I. DuPont de Nemours & Co.

Order cable grommets by diameter of cable and post through which the cable will be drawn.

CABLE DIA.	INTERMEDIATE POST MATERIAL (Not slotted for stairway)				INTERMEDIATE POST MATERIAL SLOTTED FOR STAIRWAY PITCH UP TO 37°		
	Schedule 40 1-1/4" 1-1/2" 2" PIPE	SQ. OR RECT. TUBE WITH .120" WALL	1/4" CABLE BRACE or SQ. OR RECT. TUBE WITH .250" WALL	1/2" FLAT BAR	Schedule 40 1-1/4" 1-1/2" 2" PIPE	SQ. OR RECT. TUBE WITH .120" WALL	1/4" CABLE BRACE or SQ. OR RECT. TUBE WITH .250" WALL
1/8" & 3/16"	G-C6-1	G-C6-2	G-C6-4	G-C6-500	GI-C6-1	GI-C6-2	GI-C6-4
1/4"	G-C8-1	G-C8-2	G-C8-4	NA	GI-C8-1	GI-C8-2	GI-C8-4

Cable grommets are available in lots of 100 each.



CABLE DIA.	END POST MATERIAL USING RADIUS FERRULE, PUSH-LOCK or PULL-LOCK FITTINGS	
	Schedule 80 1-1/4"*, 1-1/2" or 2" PIPE	SQ. OR RECT. TUBE with .250" WALL*
1/8" & 3/16"	G-C6-3	G-C6-4
1/4"	G-C8-3	G-C8-4

\*Cable grommets not required with 1-1/4" pipe counterbored for use with 1-1/2" Push-/Pull-Locks, or with 2" or 3" tube if using like-length Push-/Pull-Locks.

## Cable

**Sizes offered.** Five sizes of cable are offered for the Ultra-tec Cable Railing System: 1/8", 3/16", 1/4", 5/16" and 3/8".

**Cable construction.** For most applications, we recommend 1x19 construction, type 316 stainless steel cable. 1x19 construction cable is engineered to hold static loads without stretching, and it is relatively stiff. Other cable constructions can be used, such as 7x7 or 7x19, but they are rarely recommended because of their elevated levels of stretch and lower breaking strengths in comparison to 1x19 construction (see chart below).

### Swaging — attaching fittings to cable.

Our swageless fittings do not require swaging, since the hardware is attached to the cable by hand. Other Ultra-tec hardware is swaged using hydraulic presses that apply up to 55 tons of pressure to swage the fittings. Ultra-tec portable swagers are available for purchase or rent, or in many cases the factory can supply cable with fittings attached. It is worth noting that fittings

cannot be successfully swaged onto 1x19 construction cable using hand swagers offered by others. In those instances, less desirable constructions must be used. That is never the case with Ultra-tec hardware.

**Cable coating.** Cable can be special ordered with a PVC coating in any standard (PMS) color. PVC coated cable is not shown in our Design and Fabrication Guide for Metal Framed Railings, so special caution should be used if you are considering coated cable because hole specifications for frame components can change and, in some cases, special hardware may be required. If you are interested in using coated cable, please contact the factory for any necessary special hardware or design specifications.



### MINIMUM BREAKING STRENGTHS (in Lbs.) FOR TYPE 316 STAINLESS STEEL CABLE

CABLE DIA.	1x19	7x7	7x19
1/8"	1,780	1,360	1,300
3/16"	4,000	3,300	2,900
1/4"	6,900	5,500	4,900
5/16"	10,600	7,600	7,600
3/8"	14,800	11,700	11,000



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