

WAGNER RAIL SYSTEM

GLASS RAILING

CABLE RAILING

SPIRAL STAIRS BALCONIES

ALUMINUM RAILINGS

BRASS / SS FITTINGS

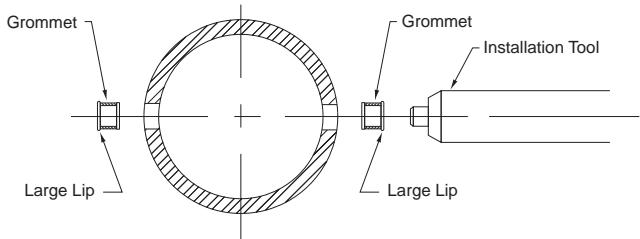
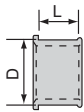
**ULTRA-TEC® CABLE GROMMETS**

**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** – into the end post holes through which the cable exits. They are offered in black UV resistant Delrin®.

Cable Size	Intermediate Post Material Not slotted for Stairways			End Post Material Using Radius Ferrule, Push-Lock™ or Pull-Lock™ Fittings			Intermediate Post Material Slotted For Stairway Pitch Up To 37 Degrees		
	1 1/4" to 2" Pipe	Square or Rectangular Tube with .120" Wall	1/4" Cable Brace	1 1/4" to 2" Pipe	Square or Rectangular Tube with .250" Wall	1 1/4" to 2" Pipe	Square or Rectangular Tube with .120" Wall	1/4" Cable Brace	
1/8"	CRGC61100	CRGC62100	CRGC64100	CRGC63100	CRGC64100	CRGC61100	CRGC62100	CRGC64100	
3/16"	CRGC61100	CRGC62100	CRGC64100	CRGC63100	CRGC64100	CRGC61100	CRGC62100	CRGC64100	
1/4"	CRGC81100	CRGC82100	CRGC84100	CRGC83100	CRGC84100	CRGC81100	CRGC82100	CRGC84100	

Order **Cable Grommets** by diameter of **Cable** and post through which the **Cable** will be drawn. Sold in lots of 100. Specify quantity when ordering.



**GROMMET IDENTIFICATION CHART**

Part Number	D	L
CRGC61100	.370"	.150"
CRGC62100	.370"	.120"
CRGC64100	.370"	.250"
Part Number	D	L
CRGC61100	.250"	.150"
CRGC62100	.250"	.120"
CRGC63100	.250"	.190"
CRGC64100	.250"	.250"
Part Number	D	L
CRGC81100	.424"	.150"
CRGC82100	.424"	.120"
CRGC84100	.424"	.250"
Part Number	D	L
CRGC81100	.312"	.150"
CRGC82100	.312"	.120"
CRGC83100	.312"	.190"
CRGC84100	.312"	.250"

**CABLE**

**Cable Construction:** 1 x 9, Type 316 stainless steel **Cable**.

1 x 19 construction **Cable** is engineered to hold static loads without stretching and it is relatively stiff. Left hand lay cable for use with all Ultra-tec® **Fittings**.

**Design Parameters and Constraints:**

**Cable** has a very high tensile strength and is a suitable in-fill material for a guard-rail. Spacing between posts and/or braces should not exceed 42". Recommended maximum vertical spacing of 3" free opening between cables when they are installed. For most applications, 3/16" diameter **Cable** is recommended.

*Other Cable constructions can be used, such as 7 x 7 or 7 x 19, but they are rarely recommended because of their elevated levels of stretch and lower breaking strengths in comparison to 1 x 19 construction.*

**CABLE**

Cable Size	Minimum Breaking Strength	Stainless Steel
1/8"	1,780 lbs	CR4AS2
3/16"	4,000 lbs	CR6AS2
1/4"	6,900 lbs	CR8AS2
3/8"	10,600 lbs	CR10AS2
1/2"	14,800 lbs	CR12AS2



**Measuring Cable:**

The factory can cut **Cable** and swage fittings on **Cables** up to 60 feet in length.

To measure **Cable** when ordering pre-cut and swaged **Cable**:

- Clearly identify fittings – by part number – that are to be used with the **Cable**.
- For **Invisiware® Receiver, Radius Ferrule** or **Clip-On Stop** hardware, measure from *back side of the post*.
- For **Adjust-A-Jaw®, Adjust-A-Body™, Threaded Stud with Welded Receiver** or **Fixed Jaw** hardware, measure from the *inside surface of the post*.
- For **Adjust-A-Jaw®, Adjust-A-Body™** or **Fixed Jaw** hardware, you may also measure from the *center of the mounting hole*.
- Measure rail as if all are straight from tensioning post to anchor post. If rail is on a slope, measure on the slope.

**Note:** Re-spooling charges apply for orders under 5,000 feet.



Mike • Bending



Scott • Shipping