

QWL – accessories cabling information

The Amphenol® QWL series of electrical connectors has been designed with the problems of multi-conductor cable users in mind. Two of these problems, namely water proofing and strain relief, are solved by the radial inward compression of an internal neoprene gland in the various cable accessories shown on the following pages. For additional strain relief beyond that provided by the gland, both cable grips and bar clamps are available. Since the glands close down from .094” to .145” (depending on shell size), the optimum condition for cable users is to select a gland with an I.D. only slightly larger than the maximum O.D. of the cable. The inside diameter of the accessory housing determines the maximum diameter of the cable as shown in the tabulation below. Smaller sizes than those shown in each shell size can be accommodated by smaller compression glands.

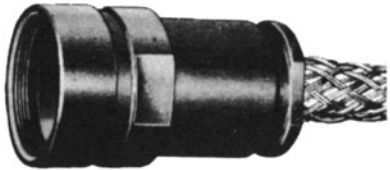
Different cable manufacturers use different constructions and cable lays in manufacturing multi-conductor cable. The specific cabling manufacturing specification should be known by the customer in detail in order to properly figure each QWL application. This knowledge can save many individual wire crossovers in any given run of cable. Crossovers add materially to the cable diameter without a cable accessory. In those cases where diameter buildup is impossible to avoid, special cable accessories with longer barrels are available.

How to order information is covered in detail on pages 4 and 5. In selecting the base number below, care should be used, as some of the cable accessories are provided with protection cap attachment rings, while others are provided with the Kellems strain relief grip as shown. If a type or cable accommodation size is not found herein that fulfills your application, please contact Amphenol, Sidney, NY.

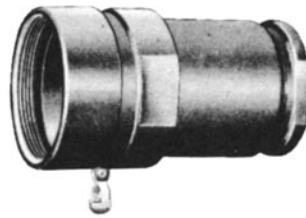
All dimensions for reference only.

Shell Size	QWL Connector Accessory Thd.	Approx. Work Length (Internal)		Minimum Housing Inner Diameter	Maximum Cable Outer Diameter
		Short	Long		
10	.500-28	.250		.359	.359
12	.625-24	.375		.484	.484
14	.750-20	.401		.609	.609
16	.875-20	.500		.734	.734
18	1.000-20	1.120		.859	.859
20	1.125-18	1.370		.984	.984
22	1.250-18	1.370		1.109	1.109
24	1.375-18	1.370		1.234	1.234
28	1.625-18	1.370	5.000	1.427	1.427
32	1.875-16	1.370	6.000	1.708	1.708
36	2.062-16	1.370	5.000	1.895	1.895
40	2.312-16	1.370	6.000	2.130	2.130
44	2.625-16			2.375	2.375
48	2.875-16	2.218	6.000	2.630	2.630

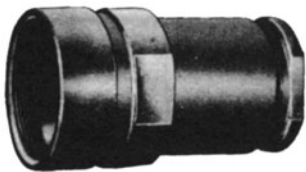
QWL – cable accessories



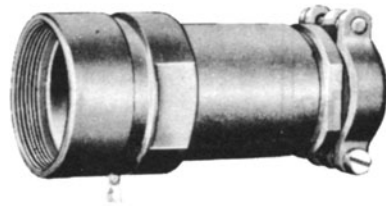
10-101332
Short barrel with grip



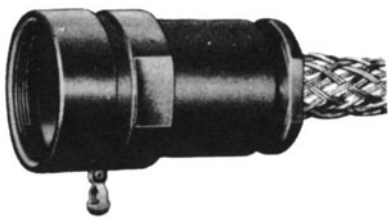
10-101335
Short barrel with attachment ring



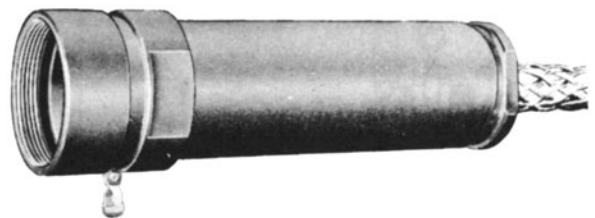
10-101333
Short barrel without grip



10-130380
Short barrel length with attachment
ring & strain relief bars



10-101334
Short barrel with grip & attachment ring



10-113637
Long barrel with attachment ring and grip