

General

Intrinsic's BR series of heat shrinkable metal rings are used to clamp cable shielding braids onto specially designed connector backshells. The braids may be of any metal, but are most often tin plated copper braids per U.S. DLA specification A-A-59569.

The BR rings are sized to mate with even numbered backshell entry sizes from 04 to 18. See Intrinsic PD012 for the backshell dimensions. For each entry size backshell two ring sizes are produced, A and B. The B rings are slightly larger in diameter. The table below shows which braids can be used with particular ring sizes. For example, a BR10A could be used to terminate a single layer of 34 gauge 1/2" braid. A BR14B could be used to terminate a double layer of .781" 36 gauge braid.

Three factors determine braid compatibility.

Can the braid be expanded in diameter large enough to fit over the adapter barrel?

Is the braid too thick for the ring to be installed on it? When a braid with a large number of ends is forced down onto a small entry size, the strands bunch up on top of each other, increasing the braid thickness.

Is the braid so thin that the ring will not clamp as firmly as intended?

Depending on variations in braid manufacturing a particular braid size might be usable at one entry size larger or smaller than what is shown on the table.

Braids other than those in A-A-59569 may be used as long as they are one of the wire gauges listed in the table below and have a similarly dense weave, or optical coverage. The key thing is that once the braid has been pulled up onto the adapter barrel, the braid should be braided and not frayed out. A braid frayed out into parallel strands is only half as thick as the intact braid the ring was designed for.

Braid size	# layers	04	06	08	10	12	14	16	18
36 x .171	1								
36 x .203	1	A							
36 x .250	1	A							
36 x .375	1	A	A	A	A				
36 x .500	1		A	A	A	A	A		
36 x .781	1				A	A	A	A	A
36 x 1.000 (c)	1				A	A	A	A	A
36 x .171	2								
36 x .203	2	B							
36 x .250	2	B							
36 x .375	2	B	B	B	B				
36 x .500	2		B	B	B	B	B		
36 x .781	2					B	B	B	B
36 x 1.000 (c)	2					B	B	B	B
34 X .250 (d)	1	A	A						
34 X .375	1	A	A	A	A	A	A		
34 X .500	1		A	A	A	A			
34 X .781	1				A	A	A	A	A
34 X .250 (d)	2								
34 X .375	2		B	B	B	B	B		
34 X .500	2								
34 X .781	2					B	B	B	B
30 X .375	1	B	B	B	B				
30 X .437	1			B	B	B			
30 X .500	1				B	B	B	B	
30 X .562	1						B	B	B
Notes									
The two braids below are not per specification A-A-59569 but have similar pushback and construction.									
Braid (c) 64 carriers with 768 ends, Glenair 100-001A1000									
Braid (d) 24 carriers with 192 ends, Glenair 100-001A250									