

Micro-D Backshells

Micro-D Backshell Wire Bundle Sizing Chart and Material and Finish Options



Maximum Discrete Wire Bundle Diameters (See Note 1)					
No. Of Wires	Wire Gauge	M22759/11		M22759/33	
		Wire Bundle Diameter	Recommended Backshell Cable Entry Code	Wire Bundle Diameter	Recommended Backshell Cable Entry Code
9	#24	0.153 (3.90)	06	0.132 (3.40)	05
9	#26	0.136 (3.50)	05	0.115 (2.90)	05
9	#28	0.119 (3.00)	05	0.098 (2.50)	04
15	#24	0.197 (5.00)	08	0.171 (4.30)	06
15	#26	0.175 (4.40)	07	0.149 (3.80)	06
15	#28	0.153 (3.90)	06	0.127 (3.20)	05
21	#24	0.233 (5.90)	09	0.202 (5.10)	07
21	#26	0.207 (5.30)	08	0.176 (4.50)	07
21	#28	0.181 (4.60)	07	0.150 (3.80)	06
25	#24	0.254 (6.50)	*	0.220 (5.60)	08
25	#26	0.226 (5.70)	09	0.192 (4.90)	07
25	#28	0.198 (5.00)	08	0.164 (4.20)	06
31	#24	0.283 (7.20)	*	0.245 (6.20)	09
31	#26	0.252 (6.40)	09	0.214 (5.40)	08
31	#28	0.220 (5.60)	08	0.182 (4.60)	07
37	#24	0.309 (7.90)	*	0.268 (6.80)	*
37	#26	0.275 (7.00)	*	0.234 (5.90)	09
37	#28	0.241 (6.10)	09	0.199 (5.10)	08
51	#24	0.363 (9.20)	*	0.315 (8.00)	*
51	#26	0.323 (8.20)	*	0.274 (7.0)	10
51	#28	0.282 (7.20)	*	0.234 (5.90)	09
100	#24	.509 (12.9)	*	0.441 (11.2)	*
100	#26	.452 (11.5)	*	0.384 (9.80)	*
100	#28	.396 (10.1)	*	0.328 (8.30)	*

*Glenair recommends elliptical style backshell

NOTES:

1. This sizing chart is for discrete wire bundles of the type and gauge indicated. When using twisted pairs, or other wire types/configurations, refer to Glenair Circular Connector Backshells & Accessories catalog, page 8, "Calculating Wire Bundle Diameter." Glenair recommends 70% area fill (wire bundle area to entry port area), not to exceed 80% area fill on Micro-D Backshells.
2. When solder-cup Micro-D connectors and low-profile backshells (short in height) are used in conjunction, the transition angle from the outer pins to the centralized entry port becomes severe and can increase the susceptibility to damage. Glenair recommends elliptical shaped entries to minimize angles of contact that can occur with round cable entries.
3. Blending and deburring/smoothing of internal geometry may not produce "perfectly" smooth, rounded features, but has a proven history of success in precluding wire abrasion damage. For additional wire protection, wrap wire bundle with DuPont™ Kapton® tape in areas that may come into contact with cable entry transitions or other interior angles.
4. Glenair recommends that harness designs avoid excessive fill percentages and severe contact angles as previously described. For applications where these conditions must exist, consult our factory for appropriate additional design / workmanship solutions

Finish Options			
Finish Code	Description	Specification	Corresponding Connector Finish Code
C	Black Anodize	MIL-A-8625 Type II Class 2	Code 4
E	Chem Film	MIL-C-5541 Class 3	Code 6
J	Cadmium Plate Over Electroless Nickel with Yellow Chromate Conversion Coating	SAE-AMS-QQ-P-416 Type II Class 3	Code 1
M	Electroless Nickel	SAE-AMS-26074 Class 3	Code 2
NF	Olive Drab Cadmium Plate Over Electroless Nickel (1000 Hour Corrosion Rated)	SAE-AMS-QQ-P-416	NF (Special order)
XM	Electroless Nickel (Composite Only)	SAE-AMS-26074 Class 3	Code 2
Z2	Gold Plated	ASTM B488	Code 5
Materials			
Shell, Saddle Clamps		Aluminum Alloy 6061 -T6 Per QQ-A-200, QQ-A-225 (Machined Components) Aluminum Alloy 6061-T6 Per QQ-A-591 (A380) (Die-Cast Components)	
Clips, E-Rings		17-7PH Stainless Steel	
Jackscrews, Washers, Jackposts		300 Series Stainless Steel, Passivated	

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High Performance Micro-D Connectors and Cables

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