J1784 Backshells for 38999-Type Connectors

Straight and 90° · cable clamp 2.49–21.67 mm · 360° shield termination



Fits	GJB 599 Series I–IV, J599WR
Forms	Straight and 90°
Cable clamp range	2.49–21.67 mm
Shield termination	360° shape-memory band, heat-shrink or band
Materials	Aluminum, stainless steel, titanium, composite

Key features

- Anti-rotation interface on every backshell
- Cable-clamp versions provide strain relief for the contact joints when the cable is under tension
- Shielded versions terminate the braid 360° with a Ti-Ni shape-memory band, a heat-shrink boot or a steel band
- Self-locking (anti-loosening) straight and 90° versions
- Rain-tight versions with long bodies for mixed high- and low-frequency cable bundles
- Composite bodies with cable seal for weight-sensitive equipment
- J1784WR versions with nickel-fluorocarbon polymer finish for the salt-spray resistant J599WR series
- Other outlet diameters, lengths and angles on request

Specifications

Mechanical

Parameter	Value	Condition
Rear thread, Series III / IV	M12 × 1-7H to M37 × 1-7H	shell 9 to 25
Rear thread, Series I / II	0.4375-28UNEF-2B to 1.4375-18UNEF-2B	Series I shell 9 to 25; Series II shell 8 to 24
Cable clamp range	2.49–5.49 mm (shell 9) to 10.62–21.67 mm (shell 25)	J1784/38, /39
Anti-rotation	Yes, all types	
Self-locking	J1784/38S, /39S, HF, HG	

Shielding

Parameter	Value	Condition
Shield termination	Ti-Ni shape-memory band, heat-shrink boot or steel band	
Shape-memory bands	TR-04 to TR-22, matched to the cable outlet	
Band installation	Hot-air gun, about 45–60 s; the color mark turns from green to black at about 165 °C	

Materials and finishes		
Parameter	**Value**	**Condition**
N	Aluminum alloy, nickel plated	
W	Aluminum alloy, olive-drab cadmium	
S	Stainless steel, passivated	
TA	Titanium alloy	J1784/38
M / J	Composite, nickel or olive-drab cadmium	composite types
T	Aluminum alloy, nickel-fluorocarbon polymer	J1784WR

Versions

Series code	Version	Notes
J1784	Standard backshells for GJB 599 Series I to IV	
J1784WR	Salt-spray resistant backshells for J599WR	Types 14, 38, 38S, 39, 39S, 88, 90, 20, 20G1–G4, 69, 18, 79, HE-M and HK-M in finish T
J1784FS	Backshells for the IP67 J599FS series	See the J599FS page

Backshell selection by function

Choose the function first, then the version that matches your connector series.

Function	GJB 599 Series I / II	GJB 599 Series III / IV	Form
Non-clamping, unshielded	J1784/27 (HA)	J1784/14	Straight
Cable clamp, unshielded	J1784/49 (HB)	J1784/38	Straight
Cable clamp, unshielded	—	J1784/38S	Straight, self-locking
Cable clamp, unshielded	J1784/47 (HC)	J1784/39	90°
Cable clamp, unshielded	—	J1784/39S	90°, self-locking
Cable clamp, unshielded	—	J1784/91 or J1784/38 (M, J)	Composite, straight
Cable clamp, unshielded	J1784/56	—	Straight, cable-tie type
Cable clamp, unshielded	—	J1784/92	Composite, 90°
Cable clamp, unshielded	—	J1784/15	Composite, straight, with cable seal
Cable clamp, unshielded	—	J1784/16	Composite, 90°, with cable seal
Shielded, non-clamping	J1784/85	J1784/88	Straight, shape-memory band
Shielded, non-clamping	J1784/87	J1784/90	90°, shape-memory band
Shielded, non-clamping	HD	—	Straight
Shielded, non-clamping	—	J1784/20 (G1, G3)	90°, shape-memory band

Function	GJB 599 Series I / II	GJB 599 Series III / IV	Form
Shielded, non-clamping	—	J1784/20 (G2, G4)	Straight, shape-memory band
Shielded, non-clamping	J1784/62	J1784/69	Straight, heat-shrink boot
Shielded, non-clamping	—	J1784/20	Straight, steel band
Shielded, non-clamping	—	J1784/20 (M, J)	Composite, straight, steel band
Shielded with cable clamp	HE	HE-M	Straight
Shielded with cable clamp	HF	—	Straight, self-locking, shape-memory band
Shielded with cable clamp	HG	—	90°, self-locking, shape-memory band
Shielded with cable clamp	—	HK-M	90°
Shielded with cable clamp	J1784/17G1	J1784/18	Straight, rain-tight
Shielded with cable clamp	J1784/76	J1784/79	90°, rain-tight
Shielded with cable clamp	J1784/62G1	—	Straight
Shielded with cable clamp	J1784/62G2	—	90°

Cable clamp range, Series III / IV (J1784/38)

Shell	Rear thread	Cable Ø min (mm)	Cable Ø max (mm)	Ø A max (mm)	Length B max (mm)
09	M12×1-7H	2.49	5.49	16.5	22.15
11	M15×1-7H	3.89	5.94	19.0	22.15
13	M18×1-7H	4.83	8.33	22.8	20.65
15	M22×1-7H	6.60	11.61	25.8	26.65
17	M25×1-7H	7.19	15.60	29.2	26.65
19	M28×1-7H	8.26	16.10	32.0	28.15
21	M31×1-7H	8.71	17.74	35.1	28.15
23	M34×1-7H	9.68	20.90	38.2	33.30
25	M37×1-7H	10.62	21.67	41.5	34.05

The same clamp ranges apply to J1784/38S, J1784/39, J1784/39S and the J1784WR versions; overall lengths differ.

Cable clamp range, Series I / II (J1784/49)

Shell	Rear thread	Cable Ø min (mm)	Cable Ø max (mm)	Ø A max (mm)	Length B max (mm)
08	0.4375-28UNEF-2B	2.49	5.94	15.60	20.80
10	0.5625-24UNEF-2B	3.89	5.94	18.60	20.80
12	0.6875-24UNEF-2B	4.83	8.33	21.79	19.30

Shell	Rear thread	Cable Ø min (mm)	Cable Ø max (mm)	Ø A max (mm)	Length B max (mm)
14	0.8125-20UNEF-2B	6.60	11.61	24.95	25.30
16	0.9375-20UNEF-2B	7.19	15.60	28.20	25.30
18	1.0625-18UNEF-2B	8.26	16.10	30.90	26.80
20	1.1875-18UNEF-2B	8.71	17.73	34.10	26.80
22	1.3125-18UNEF-2B	9.68	20.90	37.66	32.05
24	1.4375-18UNEF-2B	10.26	21.67	40.46	32.80

How to order

J1784/[type]-[shell][finish]

Example: **J1784/38-15N** — Straight cable-clamp backshell for a Series III shell 15 connector, aluminum with nickel

Code segment	Options
Type	**14** Straight, non-clamping (Series III / IV)
Type	**38 / 38S** Straight cable clamp / self-locking (Series III / IV)
Type	**39 / 39S** 90° cable clamp / self-locking (Series III / IV)
Type	**88 / 90** Shielded straight / 90°, shape-memory band (Series III / IV)
Type	**69** Shielded straight, heat-shrink boot (Series III / IV)
Type	**18 / 79** Shielded rain-tight straight / 90° with cable clamp (Series III / IV)
Type	**27 / 49 / 47** Non-clamping / straight clamp / 90° clamp (Series I / II)
Type	**85 / 87** Shielded straight / 90°, shape-memory band (Series I / II)
Shell	**09–25** Series III / IV shell (letter codes A–J also used) or Series I shell
Shell	**08–24** Series II shell
Finish	**N** Aluminum, nickel
Finish	**W** Aluminum, olive-drab cadmium
Finish	**S** Stainless steel, passivated
Finish	**TA** Titanium alloy (J1784/38)

Shielded types 88 and 90 add A when a shape-memory band is included, followed by the band code; without a band the code gives the cable outlet diameter.

J1784WR backshells for the J599WR series use finish T (for example J1784WR/14-25T).

J1784 and J1784A designate the same parts; hyphens and spaces in the part number are placeholders only.

Standards

- **GJB 1784-1993** — Chinese backshell specification, the counterpart of MIL-C-85049 (now SAE AS85049).

Request a quote or drawing: https://sinoxh.com/request-a-quote/?product=J1784%20backshells