

Reference Guides

Preventing Contact Splay with Expanded Clearance Accessories



Prevent Contact Splay with Expanded Clearance Backshells

This reference guide provides information on extra clearance backshells. Standard clamps and adapters are too small for size 8 coax, twinax, quadax and octaxial contacts with sealing boots. This interference causes axial displacement of the boot, leading to contact splay. Standard 45° and 90° elbows can also cause axial stress on contacts along with overbending of wires.

Expanded clearance accessories can eliminate these problems. These accessories have larger inside dimensions to avoid interference with sealing boots. Expanded clearance extenders and banding adapters have full radius "swept" 45 and 90 degree elbows prevent overbending of wires. Expanded clearance saddle clamps (P/N 620-090) have lengthened frames for improved management of coax and shielded twisted pair cables.

Expanded Clearance Extender Backshell

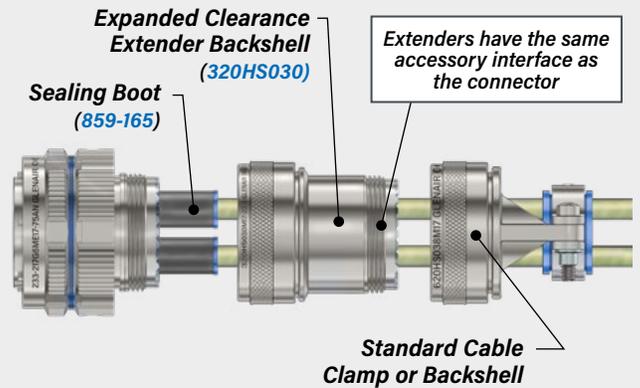
Expanded clearance extender backshells have larger inside dimensions to avoid interference with sealing boots. Attach a standard backshell to the extender. Swept 45° and 90° extenders prevent overbending of large diameter cables used with coax, twinax, quadax and octaxial contacts.



Expanded Clearance Extender
320-030



Expanded Clearance Composite Extender
320H*031



Connector	Extender Part Number	Composite Extender Part Number
MIL-DTL-38999 Series III, IV	320H*030	320H*031
Series 80 Mighty Mouse	320M*030	-
Series 806 Mil-Aero	320V*030	-

Expanded Clearance Banding Backshell

Expanded clearance banding backshells are available in two styles: 440-233 with optional shrink boot, or 443-042 shrouded "band-in-a-can" version with saddle clamp strain relief. Terminate cable braid shield to adapter with stainless steel *Band-Master ATS®* bands. 45 and 90 degree profiles have swept elbows to maintain minimum wire bend radius requirements.



Expanded Clearance Banding Backshell
440-233



Expanded Clearance Shrouded Banding Backshell
443-042

Connector	Banding Backshell Part Number	Shrouded Banding Backshell Part Number
MIL-DTL-38999 Series III, IV	440H*233	443H*042
Series 80 Mighty Mouse	440M*233	443M*042
Series 806 Mil-Aero	440V*233	443V*042

Expanded Clearance Saddle Clamp

Expanded clearance saddle clamp has increased inside dimensions to eliminate interference with size 8 contacts and sealing boots. Increased frame length reduces axial stress on wires.



Expanded Clearance Saddle Clamp
620-090

Connector	Saddle Clamp Part Number
MIL-DTL-38999 Series III, IV	620HS090
Series 80 Mighty Mouse	620MS090
Series 806 Mil-Aero	620VS090