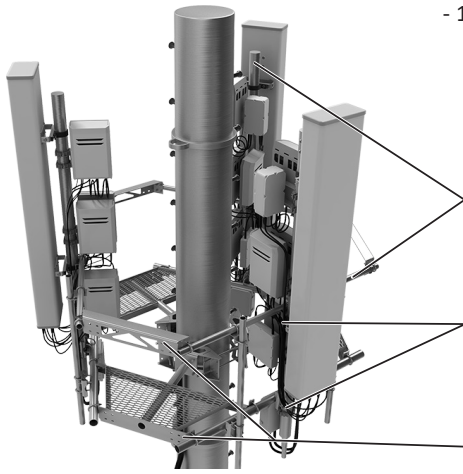## PIM-Guard® Applications

PIM-Guard Accessories, reduce the PIM where it matters most, the Hi-Risk PIM zone exists in close proximity to the antenna; in front, above, below, and even behind it. The zone is defined as:
- 10' (3M) directly above or below the antenna
- 5' (1.5M) behind the antenna
- 100' (30M) in front of the antenna

Mounting to Round Member for cable support
Material ID: **PGP-series cable support brackets, SA-3C, SA-4C, SA-1C, UHA-3C, FBR-COIL-S**

Supporting Fiber / Power / Coax cables
Material ID: **SSH-411, SSH-1117, SSH-1724, SSH-2630, SSH-3642, SWH-200-10, SA-ISO, FBR-COIL-S**

Mounting to Angle Iron for cable support
Material ID: **UA-3C, SA-3C, SA-4C, UHA-3C, FBR-COIL-S**

HELIAX® SnapTak® Adjustable Hangers (kits of 10)

Material ID:	Description:	Application:	Use with:	CommScope Cable series:
SSH-411	Polymer Snap-in Adjustable Hangers	Support cables from 4.0mm to 11.0mm in diameter.	3/4" stamped holes, PGP-series cable support brackets, UA-3C, SA-3C, SA-4C, SA-1TR, SA-1C, UHA-3C	DFJ-2S123 | FJ-1S,2S,3S,4S,6S,8S, 12S | DFJ-2S320 | FHBDW-H2 | FJ-4MM | DFJ | FJ-2SM, 4SM | FJ-1SM | FSJ1 | PTS1 | DFJ-12S | RFFT | ATCB-B01 (RET data cable)
SSH-1117	Polymer Snap-in Adjustable Hangers	Support cables from 11.0mm to 17.0mm in diameter.	3/4" stamped holes, PGP-series cable support brackets, UA-3C, SA-3C, SA-4C, SA-1TR, SA-1C, UHA-3C	PWRT-212-S | LS2 | PWRT-312-SC | PWRT-208-LI | PWRT-210-S | FSJ4 | HL4 | AL4 | LDF4 | PWRT-208-S
SSH-1724	Polymer Snap-in Adjustable Hangers	Support cables from 17.0mm to 24.0mm in diameter.	3/4" stamped holes, PGP-series cable support brackets, UA-3C, SA-3C, SA-4C, SA-1TR, SA-1C, UHA-3C	HFA206-1 to 6S | HFT410-1 to 4S | PWRT-608-S | PWRT-606-S
SSH-2630	Polymer Snap-in Adjustable Hangers	Support cables from 26.0mm to 30.0mm in diameter.	3/4" stamped holes, PGP-series cable support brackets, UA-3C, SA-3C, SA-4C, SA-1TR, SA-1C, UHA-3C	HFT206-8S | PWRT-604-S | AVA5
SSH-3642	Polymer Snap-in Adjustable Hangers	Support cables from 36.0mm to 42.0mm in diameter.	3/4" stamped holes, PGP-series cable support brackets, UA-3C, SA-3C, SA-4C, SA-1TR, SA-1C, UHA-3C	HFT1206 | AVA6

Installation Bulletin:

HELIAX® SnapWrap Adjustable Hanger (kits of 10)

Material ID:	Description:	Application:	Use with:
SWH-200-10	Polymer Snap-in Adjustable Wrap Hanger	Bundle multiple cable types and sizes into a 1/2" (12.7mm) to 2" (50.8mm) bundle.	3/4" stamped holes, PGP-series cable support brackets, UA-3C, SA-3C, SA-4C, SA-1TR, SA-1C, UHA-3C

Installation Bulletin:

Technical Publication

Cable Support Brackets

Material ID:	Description:	Application:	Use with:
PGP-CS04, PGP-CS08, PGP-CS10, PGP-CS12, PGP-CS16, PGP-CS16L, PGP-CS18, PGP-CS20-R, PGP-CS34L, PGP-CS38-R	Polymer 4 to 38 position cable support brackets	Antenna and RRU cable support brackets accomidate 8 to 76 cables. Up to 2 stackable hangers per position. Two 3/8" holes for threaded hardware.	All SnapTak and SnapStak hangers, SWH-200-10, CLICK Hanger Blocks

Installation Bulletin:

HELIAX® Angle Adapter (kits of 10)

Material ID:	Description:	Application:	Use with:
UA-3C	Polymer two hole angle adapter	Angle member attachment. Includes torque stop set bolt to ensure proper attachment force. Two 3/4" holes for Snap-in style hangers.	All SnapTak hangers, SWH-200-10

Installation Bulletin:

HELIAX® Standoff Adapters (kits of 10)

Material ID:	Description:	Application:	Use with:
SA-3C	Polymer three hole standoff adapter	Two sets of slots for round member attachment. 3/8" holes for bolt down attachment. Three 3/4" holes for Snap-in style hangers.	All SnapTak hangers, SWH-200-10

Installation Bulletin:
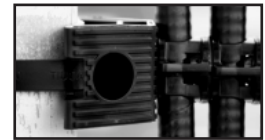
Material ID:	Description:	Application:	Use with:
SA-4C	Polymer three hole standoff adapter	Two sets of slots for round member attachment. 3/8" holes for bolt down attachment. Four 3/4" holes for Snap-in style hangers.	All SnapTak hangers, SWH-200-10

Installation Bulletin:

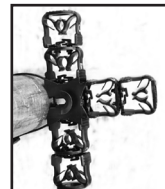| Material ID:	Description:	Application:	Use with:
SA-1TR	Polymer multi-function one hole standoff adapter	Threads into 3/8" & 1/2" bolts & U-bolts or snaps into 3/4" holes. One 3/4" hole for Snap-in style hangers.	All SnapTak hangers, SWH-200-10, 3/8" & 1/2" bolts

Installation Bulletin:

Material ID:	Description:	Application:	Use with:
SA-1C	Polymer one hole standoff adapter	Round member attachment. One 3/4" hole for Snap-in style hangers.	All SnapTak hangers, SWH-200-10

Installation Bulletin:

Material ID:	Description:	Application:	Use with:
UHA-3C	Polymer universal three hole standoff adapter	Round member or angle member attachment. Three 3/4" holes for snap-in hangers, or locations to mount three grommets or has a 3/8" holes for threaded rod attachment.	All SnapTak hangers, MCLICK hangers, cable grommets, SWH-200-10

Installation Bulletin:

HELIAX® SnapStak Isolator (kits of 10)
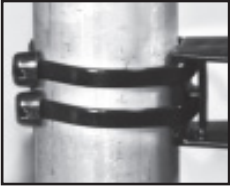
Material ID:	Description:	Application:	Use with:
SA-ISO	Polymer one hole isolator for Snap-in Adjustable Hangers	Snaps in between hanger and mounting surface, and between stacked hangers to remove metal to metal contact.	3/4" stamped holes, all SnapStak® hangers

Installation Bulletin:

Banding

Material ID:	Description:	Application:	Use with:
CB-12-16LH CB-12-18LH CB-12-27LH	Heat-stabilized weather resistant acetal cable banding, 1/2 in x 16 in, 18 in and 27 in length with attached locking head, 50, 100, 25 pcs	Round member or angle member attachment for polymer angle adapters and standoffs	SA-3C, SA-4C, SA-1C, UHA-3C

Material ID:	Description:	Application:	Use with:
CB-12-50	Cable Banding, Bulk, 1/2 in x 50 ft Reel	Round member or angle member attachment for polymer angle adapters, standoffs and excess cable management coilers	All Standoff adapters and FBR-COIL-S

Material ID:	Description:	Application:	Use with:
CB-LH-25	Locking Heads for Cable Banding CB-12-50, 25 pcs	Installation of CB-12-50 cable banding	CB-12-50

Material ID:	Description:	Application:	Use with:
CB-IT	Installation Tool for cable banding CB-12-50 and locking heads CB-LH-25	Installation and trim cutting of cable banding CB-12-50	CB-12-50 and CB-LH-25

Excess Cable Management

Material ID:	Description:	Application:	Use with:
FBR-COIL-S	Engineered plastic fiber coiling reel	Round member or angle member attachment. Accommodates 16' (5M) of excess 7mm fiber.	5-7mm fiber cables

Installation Bulletin: