V-TROUGH **INSTALLATION GUIDELINES**

View V-Trough Installation Video

PLANNING

Use these cable fill tables to determine the tray size(s) needed for your installation.

	DATA CABLE FILL TABLE				MC POWER CABLE FILL TABLE	
	MAX NUMBER OF CABLES PER CODE				MAX NUMBER OF CABLES PER CODE	
TRAY	Cat 5e 4-pr Plenum (.17")	Cat 5e 4-pr Non-Plenum (.19")	Cat 6e 4-pr Plenum (.22")	Cat 6a 4-pr Plenum (.35")	2C (12 AWG) THHN TypeMC AlumArmor	3C (12 AWG) THHN TypeMC AlumArmor
VT 50/50 (2x2)	88	71	53	20	11	10
VT 50/100 (2x4)	177	142	106	41	23	21
VT 50/200 (2x8)	355	284	212	83	47	42
VT 50/300 (2x12)	532	426	318	125	71	63
VT 100/100 (4x4)	351	281	209	82	23	21
VT 100/200 (4x8)	703	563	419	165	47	42
VT 100/300 (4x12)	1055	844	629	248	71	63
VT 100/500 (4x20)	1758	1407	1049	414	119	105
VT 100/600 (4x24)	2110	1689	1259	497	143	126

CUTTING STRAIGHT SECTIONS

V-Trough can be cut to length with a reciprocating saw fitted with a fine metal cutting blade. Mark three sides of the tray using a square and make allowances to keep mounting hole slots in position for splicing to other straight sections or fittings. Use a flat file to remove all rough edges. Cover sections can be modified in the same way.

CUTTING STRAIGHT SECTIONS FOR ELEVATION CHANGES

Cut only the sides of the tray for changes in cable pathway elevations. Make a 90 degree cut in both sides of the tray for a downward bend. For an upward bend, make a double cut to form a notch. The notch should be sized to fit the tray angle needed. Then, using a straight edge, form the tray to the proper angles.

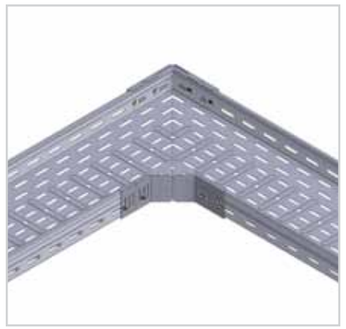
For detailed dimensions, see pages 22-23. For finish descriptions, see page 25.

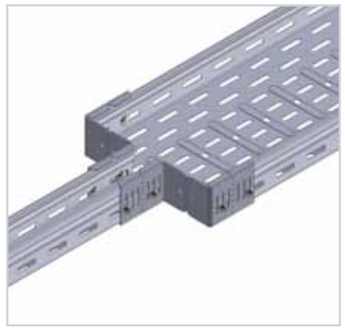
SPLICING STRAIGHT SECTIONS AND FITTINGS

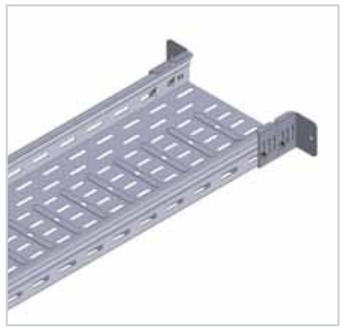
To splice straight sections of V-Trough use the FTEF. The FTEF has attachment hardware included and should be used when splicing V-Trough straight sections or fittings.

SPLICING TEES, REDUCTIONS AND LEVEL CHANGES

The FTUS is a versatile splice that can be used to construct tees, reductions and elevation changes. Use with EZ BN 1/4 bolt/nut or BTRCC6x12.







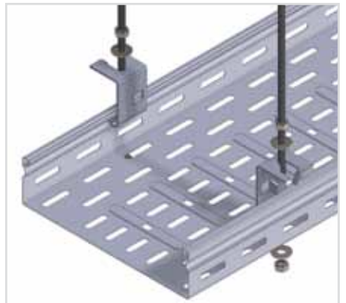
ATTACHING TO WALL OR FLOOR SUPPORTS

Securing tray to supports is easy. For attachment to the FAS U or CS series support, use the FTFCL. It simply snaps in place. Another option is the FTHDCL Tray Hold Down Clip. Both allow a cover to be used.

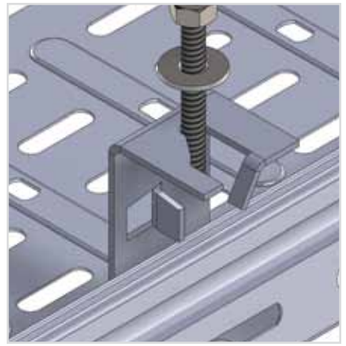
TRAPEZE SUPPORTS

For trapeze mounting, two options are available: The FTCH Center Hanger requires only a single threaded rod. The FTAS Trapeze Hanging Clip requires two 3/8" threaded rods, but allows cables to be side loaded. Folding tabs secure tray to supports.

FTCH CENTER HANGER



FTAS TRAPEZE HANGING CLIP



COVER ATTACHMENT OPTIONS

Complete the security of your cables with covers. These cover sections can be cut to fit with a reciprocating saw and simply snap on. For additional security, use the FTCFCL Cover Fastening Clip. This clip can be used in conjunction with splicing hardware to keep covers secure.