

RFS Smart Fixing
Solution Clamp Series

Ensures a safe and reliable RADIAFLEX® cable installation in harsh environmental tunnel conditions

RFS has introduced a new family of clamps for RADIAFLEX® radiating cables

The Smart Fixing Solution (SFS) clamp family ensures a safe and reliable RADIAFLEX cable installation in harsh environmental tunnel conditions. The SFS clamps also allow for an optimized installation process minimizing customer's total cost of ownership (TCO) – an aspect that is essentially important as installation time in tunnel environment is a key factor in deployments affecting overall solution cost.

The SFS clamps are based on a one-piece, self-closing plastic pipe clamp for the fixing of radiating cables in road, railway and metro tunnels. The SFS clamps also allow for more flexibility regarding compatibility regarding

installation hardware such as e.g. screws, dowels and, consequently, allow for easier adaptation to customer specific installation need.

The SFS clamps in combination with RFS worldwide leading RADIAFLEX radiating cable portfolio have also been optimized to avoid any passive intermodulation (PIM) effects which is particularly important in highly reflective in tunnel environments to avoid network interferences and ensure highest possible network throughput.

The clamps also feature a fire secured mounting functionality by allowing additional metal cable ties to be installed together with the SFS clamps.



SFS Clamps offer:

- Simple and quick assembly
- Closing system without additional screws
- Secure closure, no opening
- Fixed wall distance 80 mm
- Integrated fire protection device
- Anchor and screw fastening available with standard products; Bolt setting technology is also available

TECHNICAL DATA



SFS CLAMP TYPES

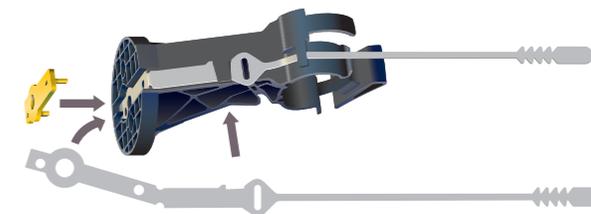
MODEL NUMBER	USE
SFS-12-01	for 1/2" cables (except RSF12)
SFS-78-01	for 7/8" cables
SFS-114-01	for 1-1/4" cables
SFS-158-01	or 1-5/8" cables

FIXATION OPTIONS

MODEL NUMBER	DESCRIPTION
SFS-PLUG-6-01	Plastic Dowel
SFS-SC650-02	Screw for Plastic Dowel
SFS-FIX-644-02	Metal Plug with Head
SFS-FIX-649-02	Metal Plug with Nut

FIRE PROTECTION INSERTS

MODEL NUMBER	USE	SIZE
SFS-12-F	for SFS-12-01 clamp (1/2")	L = 247 mm (9.72 in)
SFS-78-F	for SFS-78-01 clamp (7/8")	L = 300 mm (11.81 in)
SFS-114-F	for SFS-114-01 clamp (1-1/4")	L = 330 mm (12.99 in)
SFS-158-F	for SFS-158-01 clamp (1-5/8")	L = 335 mm (13.18 in)



Radiating cables are distributed antennas and, consequently, metal obstacles in close proximity to the cable – notably to the radiating slots – may impact radiation behavior and might cause passive intermodulation (PIM) effects. This is especially true in scenarios where a metal dowel and the metal tie wrapped around the cable might make contact. PIM effects might significantly degrade overall system performance and KPI's for wireless communication systems. In order to avoid metallic contact between the fire secured tie and the metal dowel, a plastic insert has been provided to ensure the highest possible robustness against PIM interferences.

SAFE AND RELIABLE INSTALLATIONS WHERE SECURITY-CRITICAL COMMUNICATION IS ESSENTIAL

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