

SMART PAIRING FOR COMPLIANCE AND COST SAVINGS.



TECHNICAL DATA SHEET

BOSS FX Fire™ Collar™ With FireMastic-HPE™ infill.

EDITION: 1

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TESTED IN ACCORDANCE WITH AS1530.4:- 2014 AND AS4072.1- 2005

Multi-service collar



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KEY BENEFITS

- 1hr & 2hr fire ratings
- Cost effective
- Remedial & new builds
- Use for medium sized HVAC bundles and larger lagged copper pipe pairs
- Use for medium size cable bundles
- Sweet spot between sealants and collars or multi-transit device
- Controls sealant depth for ease of compliance – no guess work
- Retrofit to existing services
- Approved for fire rated plasterboard, concrete & masonry walls & concrete floor slabs

1. INTRODUCTION

The all-new FX Fire™ Collar and class leading FireMastic-HPE™ intumescent sealant when paired together offer a fire rated system, perfect for medium sized HVAC bundles and cable bundles.

The new system was specifically developed to offer a system for bundled services that are too big or many for traditional sealants or collars, but not large enough to warrant a FyreBox or multi transit device.

2. HOW IT WORKS

The FX Fire™ collar is a cost-effective chassis only that is retrofittable around existing services or applied in new builds. FireMastic-HPE™ is then applied around the services to the depth of the FX-Fire™ collar and filled to the depth of the shell.

In the event of fire, the intumescent swells and closes off any gaps created by melting combustibles providing a fully compliant 1hr and 2hr fire rated system for HVAC and electrical bundles. Approved services include pair coil, lagged copper pipes, condensate drains and cables, power & comms cables.

3. SPECIFICATION

Suitable for both single and double-layer lightweight fire-rated plasterboard and concrete or masonry walls that offer 1-hour and 2-hour fire ratings.

Part ID	Description
FX-50	58 mm ID
FX-65	66 mm ID
FX-80	85 mm ID
FX-100	113 mm ID
FX-125	128 mm ID
FX-150	163 mm ID
FMHPE-3	310 ml Cartridge
FMHPE-6	600 ml Sausage

4. PERFORMANCE

BOSS FX Fire™ Collar have been tested with BOSS FireMastic-HPE™ infills, using multiple bundles and various service penetrations, to achieve fire resistance ratings of -/60/60 and -/120/120 in appropriate constructed fire-rated walls and floors. The applicable standards permit these installations on both concrete and masonry walls.

For specific information refer to below summary information, and read and understand the relevant test report before specification and installation of the product. For more information contact our technical services team.

4.1 Walls

Single Layer Plasterboard & Concrete Walls – Minimum Thickness of 118mm				
Services Type	Services Detail	System Detail	FRL	Ref.
Power Cable Bundle	22 x TPS	FX Fire™ Collar FX-65 installed on both sides of the wall with a 68mm aperture, FireMastic-HPE™ to depth of collar	-/60/45	PF25011 Specimen 7
Data Cable Bundle	38 x CAT6	FX Fire™ Collar FX-65 installed on both sides of the wall with a 69mm aperture, FireMastic-HPE™ to depth of collar	-/60/60	PF25011 Specimen 8
Data Cable Bundle	8 x COAX, 8 x CAT6 and 8 x Fire Alarm	FX Fire™ Collar FX-50 installed on both sides of the wall with a 52mm aperture, FireMastic-HPE™ to depth of collar	-/60/60	PF25012 Specimen 1
cPVC Pipe	50mm cPVC Pipe	FX Fire™ Collar FX-80 installed on both sides of the wall with a 78mm aperture, FireMastic-HPE™ to depth of the collar	-/60/60	PF25014 Specimen 4
cPVC Pipe	50mm cPVC Pipe	FX Fire™ Collar FX-65 installed on both sides of the wall with a 65mm aperture, FireMastic-HPE™ to depth of collar	-/60/60	PF25016 Specimen 3
HVAC Bundle	32mm and 25mm Copper Pipes with 19mm Nitrile Rubber lagging + Control Cable + TPS Cables and 20mm PVC Pipes	FX Fire™ Collar FX-150 installed on both sides of the wall with a 137mm aperture, FireMastic-HPE™ to depth of collar	-/60/60	PF25013 Specimen 5
HVAC Bundle	2 x 19.05mm and 9.52mm Copper Pipes with 19mm Nitrile Rubber lagging + 2 x Control Cables + 2 x TPS Cables and 2 x 20mm PVC Pipes	FX Fire™ Collar FX-150 installed on both sides of the wall with a 137mm aperture, FireMastic-HPE™ to depth of collar	-/60/60	PF25013 Specimen 6

4.1 Walls (con't)

Double Layer Plasterboard & Concrete Walls – Minimum Thickness of 144mm				
Services Type	Services Detail	System Detail	FRL	Ref.
Power Cable Bundle	12 x TPS	FX Fire™ Collar FX-50 installed on both sides of the wall with a 40mm aperture, FireMastic-HPE™ to depth of collar	-/120/120	PF25015 Specimen 7
Data Cable Bundle	20 x CAT6	FX Fire™ Collar FX-50 installed on both sides of the wall with a 40mm aperture, FireMastic-HPE™ to depth of collar	-/120/120	PF25015 Specimen 8
Data Cable Bundle	8 x COAX and 8 x CAT6	FX Fire™ Collar FX-50 installed on both sides of the wall with a 55mm aperture, FireMastic-HPE™ to depth of collar	-/120/120	PF25016 Specimen 1
cPVC Pipe	40mm cPVC Pipe	FX Fire™ Collar FX-50 installed on both sides of the wall with a 55mm aperture, FireMastic-HPE™ to depth of plasterboard and depth of the collar	-/120/90	PF25016 Specimen 2
HVAC Bundle	32mm and 25mm Copper Pipes with 19mm Nitrile Rubber lagging + Control Cable + TPS Cables and 25mm PVC Pipes	FX Fire™ Collar FX-125 installed on both sides of the wall with a 137mm aperture, FireMastic-HPE™ to depth of collar	-/120/120	PF25015 Specimen 2
HVAC Bundle	2 x 19.05mm and 9.52mm Copper Pipes with 19mm Nitrile Rubber lagging + 2 x Control Cables + 2 x TPS Cables and 2 x 20mm PVC Pipes	FX Fire™ Collar FX-150 installed on both sides of the wall with a 140mm aperture, FireMastic-HPE™ to depth of collar	-/120/120	PF25015 Specimen 3
HVAC Bundle	2 x 19.05mm and 9.52mm Copper Pipes with 19mm Nitrile Rubber lagging + 2 x Control Cables + 2 x TPS Cables and 2 x 20mm PVC Pipes	FX Fire™ Collar FX-125 installed on both sides of the wall with a 102mm aperture, FireMastic-HPE™ to depth of collar	-/120/120	PF25016 Specimen 4
HVAC Bundle	2 x 19.05mm and 9.52mm Copper Pipes with 25mm Nitrile Rubber lagging + 2 x Control Cables + 2 x TPS Cables and 2 x 25mm PVC Pipes	FX Fire™ Collar FX-150 installed on both sides of the wall with a 153mm aperture, FireMastic-HPE™ to depth of collar	-/120/120	PF25016 Specimen 5

BOSS Batt – Single Layer (50mm)				
Services Type	Services Detail	System Detail	FRL	Ref.
Power and Data Cable Bundle	8 x TPS and 8 x CAT6	FX Fire™ Collar FX-50 installed on exposed side of the BOSS Batt with a 50mm aperture, FireMastic-HPE™ to full depth of BOSS Batt (50mm) and depth of the collar	-/120/30	FRT 1478817 Specimen 1
Power and Data Cable Bundle	8 x TPS and 8 x CAT6	FX Fire™ Collar FX-50 installed on un-exposed side of the BOSS Batt with a 50mm aperture, FireMastic-HPE™ to full depth of BOSS Batt (50mm) and depth of the collar	-/120/15	FRT 1478817 Specimen 5

4.2 Floors

Concrete Floors – Minimum Thickness of 120mm				
Services Type	Services Detail	System Detail	FRL	Ref.
Power and Data Cable Bundle	38 x CAT6 and 22 x TPS	FX Fire™ Collar FX-80 installed on the underside of the slab with a 90mm aperture, FireMastic-HPE™ to depth of collar	-/120/120	PF25031 Specimen 3
Power and Data Cable Bundle	38 x CAT6 and 22 x TPS	FX Fire™ Collar FX-80 installed on the underside of the slab with a 90mm aperture, FireMastic-HPE™ to depth of collar	-/120/120	PF25015 Specimen 8

5. INSTALLATION GUIDE.

1. Ensure that the gap, aperture and/or services in question are tested with **FX Fire™ Collar** and the site conditions are within the application specification.
2. Cut the appropriate size aperture in accordance with the tested system.
3. Ensure the opening and any surface/substrate with which the product will come into contact are clean, dry, free of dust and loose particles and free from oil or grease.
4. Install the service and if required, use the **FireMastic-HPE™**, with a foam backing rod to control the sealant depth on each side of the wall if the tested or certified system requires.
5. Unlock the clasp of the **FX Fire™ Collar** and fit the collar securely around the approved service or services. Close the clasp and install appropriate fixings through the relevant number of tabs of the collar.
6. Apply sealant around the service and fill the remaining void of the **FX Fire™ Collar** using an appropriate caulking gun. Best results are achieved if filling is started at the bottom of the void/collar and working upwards.
7. Smooth out sealant with a wet spatula within 5 minutes for a professional finish.
8. Clean tools immediately after use with water.
9. Label penetration in accordance with regulatory requirements.
10. An additional step may be required when using Thermal Defence Wrap after completing step #7.
 - a. Install one revolution of 300mm wide wrap around the services, ensuring it is tight against the substrate. The wrap should end with a 50mm overlap at the starting position.
 - b. Secure the overlap with foil tape along the seam for 300mm.
 - c. Use cable ties around the wrap to keep it securely in place using three ties. Ties to be placed within 50mm from each end of the wrap, and one in the centre.

6. HEALTH AND SAFETY

To learn more about the safe handling of **FireMastic-HPE™** infill, see the Safety Data Sheet for FireMastic-HPE™ available at bossfire.com

7. IS THIS PUBLICATION CURRENT?

This document may be superseded by new versions. If you are unsure of whether or not this document is a current publication, please contact us. **AU: 1300 502 677 NZ: 0800 502 677 Int: +61 2 9524 4040 Email: info@bossfire.com**

8. LIMITATION

BOSS Passive Fire Pty Ltd has provided the above technical information in good faith and to the best of its knowledge. This information was deemed to be correct at the time of publication. Should any data come to BOSS Passive Fire's attention relating to the fire resistance or performance of the product described BOSS Passive Fire reserve the right to amend this report.

BOSS Passive Fire strive to constantly improve and develop products so this information may change without notice. The information contained herein has been developed as a guide only and it does not constitute a guarantee of compliance of all applications. Each project and/or application may have specific requirements and you should investigate these carefully. Ensure that you have read and understood the appropriate certification relative to your needs, and ensure you seek acceptance from the Certifying Authority or compliance inspector before installation. For updates on the range of BOSS Fire® certification, please contact BOSS Technical Services. **AU: 1300 502 677 NZ: 0800 502 677 Int: +61 2 9524 4040 Email: info@bossfire.com**



Further Information

For additional technical information on the performance of **BOSS FX Fire Collar™**, other **BOSS Fire®** products or any other BOSS Fire® related information please contact us on:



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