



EM-WRAP Installation Instructions

(Straight connection)






Introduction

This document outlines the best practice for installing the double layer EM-WRAP when use to create an IP67 rated 12-way Direct Install (5/3.5mm) straight connection. Typically used with Emtelle 12-way Direct Install 5/3.5mm or the 3-way 10x8 with 3 x 5/3.5mm tubes.

Kit Contents

The Double Layer EM-WRAP Kit Contains the following items:

Item	Image	Description
EM-WRAP		1no. EM-WRAP Double Layer Closure
Cable Ties		6no Nylon Cable Ties
Amalgamating Tape		2no. Rolls of 25mm amalgamating tape (<i>not required for straight connection</i>)









Recommended PPE

Emtelle recommend wearing the following safety clothing when installing EM-WRAP products. It is the responsibility of those installing the product to follow any network safety rules.

Item	Image	Description
Hi-Vis Jacket/Vest		Hi visibility protective workwear. A requirement when working on site in the UK
Safety Glasses		Eyewear to protect from airborne debris and particles.
Work Gloves		Protects the hands from injury and offers additional grip when handling the product.

Recommended Tools & Equipment

The following tools & equipment were used to complete the installation as described within this document.

Item	Image	Description
Measuring Tape		Required to measure no less than 300mm
Marker Pen		Pen or paint marker to mark out measured dimensions.
Circumferential Sheath Cutter		Use to cut around the circumference of a tube bundle sheath
Longitudinal Sheath Cutter		Use to cut along the length of a tube bundle sheath
Tube Cutter		Use to cut individual (5 & 7mm) tubes
Rounding Tool		For checking the bore of a cut tube.
5mm Compression Connector		Required to join 5/3.5mm tubes.
Cutters/Snips		Use to cut excess from cable ties.

Step 1

Ensure tubes to be connected are cut in a staggered formation (to avoid overlapping connectors) and use a rounding tool to check duct ID prior to fitting the tubes into connectors.



Step 2

Check the tubes are lying parallel (not twisted) and that each connector is fully inserted and secured in place.

**Step 3**

Begin to wrap the EM-WRAP around the duct/tube assembly.



Step 4

For an effective seal it is important to ensure the leading edge of the EM-WRAP is fully tucked under the duct/tube assembly and should not be allowed to “double back” on itself.

**Step 5**

Pull each of the 4 tabs and secure them under the corresponding buckle as the EM-WRAP is closed around the duct/tube assembly.



Step 6

There are two notches on the buckle – where required, use the first notch to fully close the EM-WRAP. The taps can then be pulled tight onto the second notch.

**Step 7**

Each tab/buckle on the EM-WRAP has 3 cable tie locating slots. Start by applying the supplied cable ties to the slots at the far end of the EM-WRAP.



Step 8

The first and last tab/buckle should receive 2no.cable ties each. The two central tab/buckles should receive 1no cable tie each, positioned in the central slot.

**Step 9**

Pull each cable tie ensuring it is tight and secure around the duct/tube assembly. Once secure the excess should be trimmed away from each cable tie to complete the EM-WRAP installation.



Step 10

The EM-WRAP installation is complete.

