

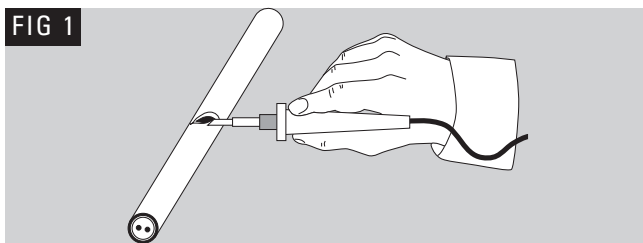
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Installation Recommendation for Repairs to LSF Covered Pyro Mi Wiring Cables - Damaged During Installation

The method of repairing the LSF outer covering of a Pyro Mi Cable will depend upon the cables application.

AESTHETIC OR CIRCUIT IDENTIFICATION REPAIRS

In situations where the covering has been specified on the basis of aesthetic appearance, or to facilitate circuit identification, the following method of repair may be employed.



For minor repairs, the LSF material adjacent to the damage can be re-moulded. This is achieved by using an electric soldering iron or a hot knife to melt the material and redistribute it (Fig 1). The soldering iron is the most convenient, as it remains hot in use. More extensive damage will necessitate the use of a larger soldering iron.

Areas of major damage can be repaired by neatly cutting out the damaged section and replacing it with a new piece cut from a surplus piece of cable. The new piece is moulded into place by heating the joint seams as previously described.

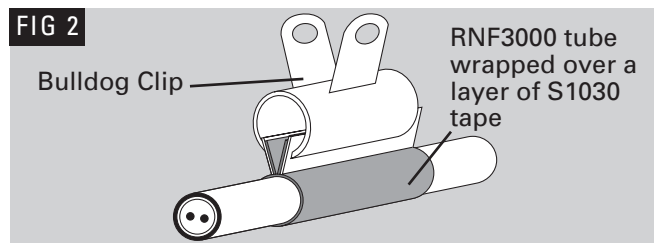
CORROSION RESISTANT REPAIR

Where the outer covering has been specified to prevent corrosion of the copper sheath, the foregoing methods are unsuitable, as they do not guarantee a non-porous repair.

A repair which will provide corrosion protection can be effected by utilising a combination of heat shrink tape and hot melt adhesive tape. Two suitable tapes

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are manufactured by Tyco Electronics ref. S1081 and S1030 respectively. As the S1081 tape is only available in black, colour matching can only be achieved by using a layer of suitable adhesive tape over the completed repair. The repair is made by first half lapping a layer of S1030 tape over the damage and then overlapping this with a layer of the S1081 tape. The repair is then heated using a hot air gun until the adhesive melts.



Alternatively, a heat shrink tubing is available from Tyco Electronics in an extensive range of colours, ref. RNF3000. This can be used with the S1030 tape to produce a colour matched, corrosion resistant repair. It is best to apply the tube intact by sliding it on from one end of the cable, however, if the cable is installed, this may be difficult. In these circumstances the tube may be split longitudinally to form a plastic sheet. This is then wrapped around the layer of S1030 tape and held in place with a bulldog clip (Fig 2). Heat is then applied. Do not allow the tube to pull out of the bulldog clip. When the adhesive has melted, the repair is allowed to cool before removing the bulldog clip.

The excess flash is then carefully cut off.

Whilst the Tyco Electronics materials are ideal for repairing damaged coverings, it should be noted that they do not profess to be low smoke and fume.

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