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One final word on twist-on F connectors...



We have available 2 sizes of twist-on F connectors. They suit both RG59 Duo and RG6 Duo.

You can use them on Quad but they are not ideal.

They should be used when there is no other way to do it or you have a Duo cable in which case they work very well.

The internal dimensions indicate the correct connector.

All instructions except the crimping are applicable to this product.

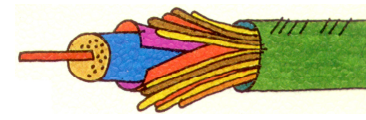
If the connector is on correctly then it will not be able to be removed with a quick tug.



Explorer caravan range from Deeper Image Television

You can visit the explorer website at www.explorer-rv.com.au for a preview of a great range of Caravan fittings which utilise the F connector as the main connection system for a caravan.

For people repairing or refurbishing their van I would recommend part no. PPFLC. This product provides you with a connection thru the van bypassing existing problems, a new tv cable from wall outlet to TV set, twist on F connectors for your antenna cable and an adaptor if you insist on using the inferior Pal connection.



CABLE & CONNECTIONS

Written by Founder of Deeper Image Television Sally Garden



Sample connectors & cable



Top Left: Pal connector which is crimp style

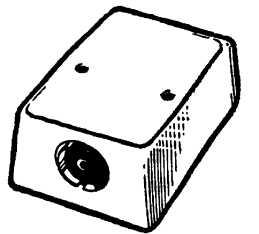
PLUS a profile of cable stripped

Bending cable...

The bending radius of cable has a limit. The typical cable used by the DIY installer and the caravanner is approximately 90°. A radius greater than this will damage the structure of the cable. This causes the signal (energy) to be bounced about on the cable creating additional noise in your picture. In some circumstances this can destroy a picture.

Connections are like a marriage, they need to be a perfect match. If they are not then signal loss occurs and picture performance is badly effected.

Common among the caravan industry is the continued use of Pal household connections. This practice results in poor signal handling, signal loss and subsequent poorer pictures than would otherwise be received.



Points of Importance

- Good cable is essential
- Cable and connectors must be matched for best results
- Use RG6 Duo or Quad cable
- Make sure the F connector is for Duo or Quad cable
- Make sure the pal fitting is for Duo or Quad cable

Good cable is needed for good results...

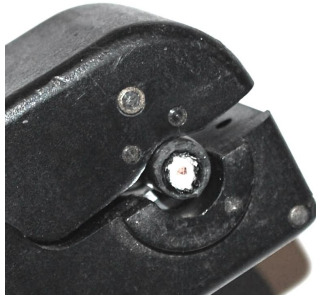
Cable is the transport system. It carries the signal picked up from your antenna to your TV set. The efficiency of the cable is super important. Not only the choice of cable but the way it is handled and terminated is very important.

Further notes on cable...

There are many different types of cables. Recommended for digital use is a quad shield cable. Shielding is very important to guard against impulse noise. This appears on your picture as an interruption resulting in the picture breaking up totally if bad or just a little bit if a minor interruption. This is called pixilation.

RG6 is the type of cable every household should be using. There are 2 versions. A quad version as discussed above or a duo version meaning 2 shields as opposed to 4 shields. City dwellers are best with quad as a standard but the greater flexibility of duo is helpful for the caravanner who is constantly installing and removing his antenna. Personally I would use duo in these circumstances.

Cut the cable strip & fit...



Make sure you have the correct fitting connector. Strip the cable as per instructions on page 3.

Remember to keep the foil in place. The correct connector will be firm but have little resistance.

When your cable is stripped it should look like the picture on the left.

There are many F connectors on the market. Some are generic and as such are not matched to cables. Rather they are about right—which is not right at all.



Cut your cable and identify whether it is duo or quad.



Pull back the wires over the PVC jacket. before placing the f connector.

Buy your connectors specifying the cable you are using.

Other Cables...

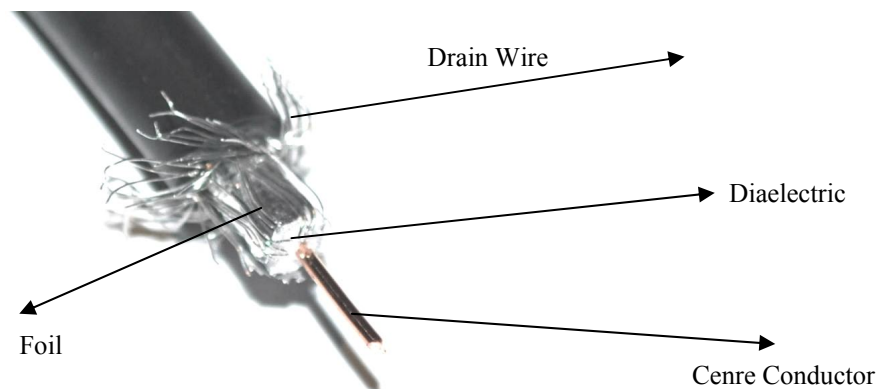
Cable is easier to use when it is warm not hot. Cold cable is stiff and difficult to work with.

There is one other cable that could be used and in many cases it will be good enough. It is a RG59 duo foil. The cable brand would be Belden, Times Fibre, & Comscope. You can buy RG59 F connectors and Pal fittings to match. They are harder to find but Deeper

Image Television still have some left. The difference between the RG6 and RG59 is size and signal loss. The outer jacket difference is approximately 0.7mm just enough to make fitting a connector a problem. The signal loss is greater but not significant.

The introduction of digital has push the standard to a RG6 because it is just that little bit better. Cables with air space holes, copper centres, mixture of metals, hard or clear diaelectrics should be avoided. They are extremely expensive on signal and create more problems than they solve.

Parts of co-axial cable.....



The tools you need...

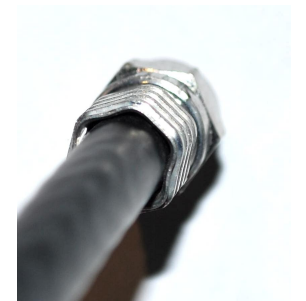


This is a crimper which will handle all size connections. The outer diameter of F connector or Pal connectors is exactly the same. It is the inner diameter that changes to accommodate the cable.

When the connector is crimped the outside appearance should look like the picture below. There should not be any bare wires or foil showing. The crimp should be firm so that you cannot pull it off with a good tug. When putting a connector on you should take special care to keep the foil in place. It should not be pushed back under the PVC. See page 2.. The centre conductor protrudes and should be approximately 3mm longer than the outer rim of the F connector.



The pal connector has jaws inside which the centre conductor fits into.



Stripping the cable...

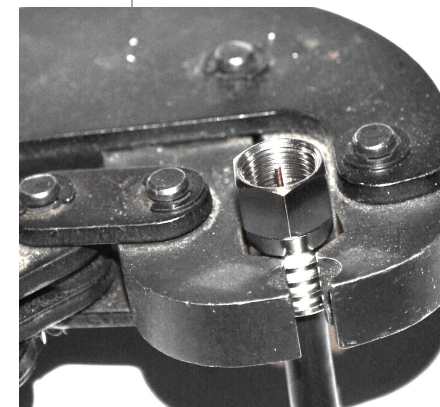


Note: If you place your cable so that it aligns with the trimming guide then you will have perfectly proportioned cable to fit to any F or pal connector. The motion is clockwise and then anti-clockwise with

each have about 3 total turns. By reversing the direction you avoid twisting the outer wires and often damaging them. The stripped cable should be round so make sure before you start the cable is round and has not been flattened by a poor pair of

The right tools make any job easy. Ask about our hire service for the DIY handyman.

The Crimp...



Caution: When putting the connector into the crimper make sure the crimper is aligned at the cable end. This avoids crimping the collar of the connector which is not only hard to do but does not result in a good connection.

