

Conversion of fibre-optic cables



For many years we've used the beside shown connectors, made for us by Amphenol, to control our equipment.

To control each of our equipment (e.g. antenna mast or turntable) we need two fibres, one for commands from the controller to the unit and one back from the unit to the controller. An advantage of the Amphenol connector was, that we could place both fibres in one housing. Together with a suitable cable we could present a sturdy fibre-optic cable.



Year by year the connectors got much more expensive and in 2001 the production was stopped by Amphenol. We got some last connectors for exorbitant costs – that is was.

We still have a huge number of housings on stock but not the small complex tubes which are crimped to the end of each fibre and which are polished finally.

Therefore it is not possible to repair a damaged fibre; even if you miss one of the small white plastic tubes, you can see on the first photograph, we have no spare. As a consequence of Amphenols decision in 2001 we shifted to F-SMA connectors.

What you have to do in case of a damaged fibre-optic cable:

Please order the following parts and replace one plug of the controller and the plug of the controlled device (e.g. antenna mast) by a conversion set **RSC-Z2**. As a specific length of RSC-Z2 is needed, please tell us exactly which controlled device you want to convert. The conversion set comes along with a detailed instruction. You can leave the second way (e.g. to a turntable) as it is or you can convert this way as well.



RSC-Z2 for controller

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Fibre-optic cable LWL-2SS-xx
(xx says specific length)

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RSC-Z2 for controlled device
(length depends on device)

Attention: All components of a fibre-optic links have to work together, functioning can only be guaranteed by using our recommended components.

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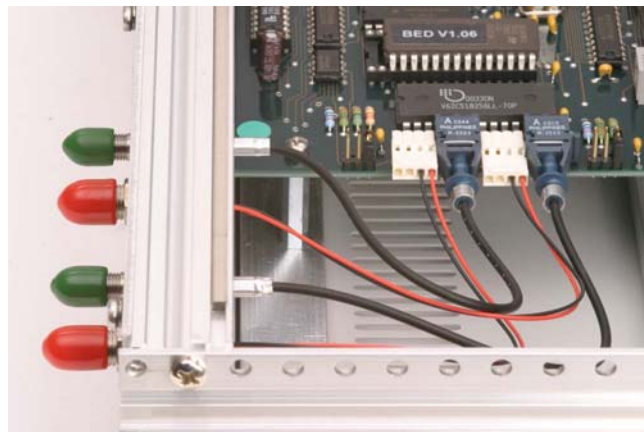


Conversion and Extension



The electronic components, we used until 2001, are at there end if the length of the cables get 40...50 metre, depending on the conditions of cables and plugs. Animated by the change-over to F-SMA we also found a new transmitter-diode that works very efficient. This transmitter-diode is no more located on the PCB but directly in the backpanel of the controller/controlled device.

Both photographs on the left hand side show the actual backpanel/wiring of the controller RSC 02.



If you want to rise the range of operation:

Please order two conversion sets **RSC-Z3** instead of **RSC-Z2**. This set requires critical soldering on both PCBs since the old transmitter-diode has to be replaced by a PCB-connector; you should be experienced in soldering works. Also this conversion set comes along with a detailed instruction. This modification, together with our LWL-2SS-xx, results in an operating range of up to 80 metre; we already have reached more than 100 metre.



RSC-Z3 for controller

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Fibre-optic cable LWL-2SS-xx
(xx says specific length)

+



RSC-Z3 for controlled device
(length depends on device)

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