

SIM*FIX* connectors for highly flexible 1/2" corrugated cables and cutting tool





7/16 SIMFix® plug



Only 2 single parts

7/16 SIMFix® plug and cutting tool

The SIMFix-connectors are screwable, resiliant connectors made to suit high-performance transmission applications for mobile radio base stations. As well as that, they excel with very good RF-characteristics, particularly with regard to return loss and intermodulation.

Using only two single parts the connectors of the SIMFix series for 1/2" jumper cables (RFF 1/2"-50, FSJ4-50B, Eupen 5092, HPL 50-1/2SF, HCF1/2"Cu2Y-50) can be quickly and simply assembled. They are longitudinaley waterproof in (up to 2,5 bars), and that without the use of additional sealants.

To make possible a quick assembly even on building sites, when the exact length of the jumper cable needed has not already been known, special cutting tools for the cable preparation for the SIMFix connectors were developed. Indeed, the spiral shape of the outer conductor represents a particular challenge for cutting tools at on-site assembly work. A rigid setting of the cutting blades can lead to their destruction through the cross powers which occur at the outer conductor.

To effectively cope with this problem the cutting tools have the cutting blades in a moveable setting, for which a patent has been applied for. This realises a more precise cable preparation and, at the same time, prolongs the life of the cutting blades.

Consequently, quick and reliable on-site assembly of jumper cables is guaranteed.

Performance characteristics

Connectors

- Proven, low intermodulation products
- Waterproof without sleeving, tape or other additional sealings (up to 2.5 bars)
- Longitudinaley waterproof
- Only two parts to assemble
- VSWR typ. < 1.02 / 2 GHz
- Tool for cable preparation available

Cutting Tool

- Precise cable outer jacket removal
- Precise cutting of outer conductor, dielectric and inner conductor

Order information

Oder N°	Short description
J01120A0073	7/16 Plug
J01121A0114	7/16 Jack
J01020A0098	N Plug
J01021A0156	N Jack
N00091A0004	Cutting tool
N00099A0001	Spare blades (1 round,1 small)



Leading the cable into the cutting tool



Cutting into the cable jacket, outer conductor and dielectric



Removal of the cut cable parts



Deburring the inner conductor



Screwing on the cable clamp



Mounting the connector

Technical data

Mechanical characteristics

CuBe2, Cu2Ag5 Spring contact Other metal parts CuZn39Pb3, Cu2Ag5 Insulator **PTFE**

Gasket Silicon, longitudinaley water-

proof (2.5 bar)

Electrical characteristics

Return loss (typ.) Frequency

870-970 MHz 42 dB 1700-1900 MHz 40 dB

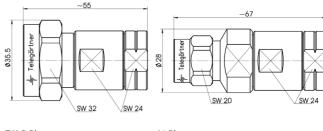
Intermodulation Intermodulation products 3. order (typ.) 2 unmodulated test-signals at 43dBm (20W)

at 800-1000 MHz -117dBm/-160dBc at 1600-2000 MHz -112dBm/-155dBc Insertion loss \leq 0.05 dB up to 2 GHz

Cable FSJ4-50B

> HCF 1/2" Cu2Y-50 RFS HCF 1/2" Cu2Y-50 AlCu RFS

RFF 1/2"-50 5092 1/2"-Hilfex HPL50-1/2 SF



7/16 Plug N Plug

