



DATA SHEET

Jumper Cables

1/4"-HIFLEX Jumper Cables

Jumper cable assemblies manufactured with 1/4"-HIFLEX cable and soldered connectors.



FEATURES

- Superflexible jumper cable with soldered connectors
- Excellent return loss (VSWR) values
- Very low intermodulation products (PIM)
- Junctions cable/connectors protected with an overmolding for mechanical robustness

TECHNICAL DATA

Electrical	
• Nominal impedance [Ω]	50
• Frequency range [MHz]	10 - 3800
• PIM ratio (2 x 20 W carrier) [dBc]	≤ -155 (Typical -163)
• Insertion loss at 20 °C - without connectors* [dB/m]	
900 MHz	0.184
2200 MHz	0.301
2700 MHz	0.337
3000 MHz	0.358
3800 MHz	0.410
• Relative propagation velocity [%]	82
Mechanical	
• Minimum bending radius [mm]	
- repeated	25
• Connector torque (nominal) [Nm]	
- 4.3-10 connector	5 - 8
- NEX10 connector	1,5
- N connector	3 - 5
Environmental	
• Temperature range [°C]	
- installation	-40 to +60
- operating	-55 to +85
• Protection against water ingress	Water tightness acc. to IP 68 (0,5 bar/24h)
• General environmental	Corrosion and UV resistant
• RoHS compliance (EU Directive 2011/65/EU)	YES
Maximum power rating [W]	
2000 MHz	230
Return Loss [dB] **	
10 - 1000 MHz	≥ 28
1700 - 2200 MHz	≥ 26
2500 - 2700 MHz	≥ 24
3300 - 3800 MHz	≥ 21

LIST OF AVAILABLE INTERFACES

43M	43 F	43 ML	XM	NM
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* The typical additional loss due to the connectors is ≤ 0.1 dB.

**These values of return loss are given for a length of jumper less than 7 meters.



TECHNICAL DATA SHEET

50 ohm connectors

Kabelwerk **EUPEN** AG

Jumper 14X
Rev.: 05/2024-05-17

cable

2/2

1/4"-HIFLEX Jumper Cables

PRODUCT REFERENCE SYSTEM

EC1-HF-S-xxx-DyzDyz

Cable type : EC1-HF: 1/4"-HIFLEX - EC1-50-HF (5042)
EC1-HF-FR: 1/4"-HIFLEX HLFER - EC1-50-HF-FR (5042-HLFR)

Connector version : S: soldered connectors

xxx = Length in cm : 030: 30 cm 150: 150 cm 300: 300 cm
050: 50 cm 200: 200 cm xxx: xxx cm
100: 100 cm 250: 250 cm

Connector 1 : 43: 4.3-10
X: NEX10
N: N

y = Connector 1 - type : F: female
M: male

z = Connector 1 - style : (none): straight version
L: right angle version

Connector 2 : 43: 4.3-10
X: NEX10
N: N

y = Connector 2 - type : F: female
M: male

z = Connector 2 - style : (none): straight version
L: right angle version

EXAMPLES :

Cable type			EC1-50-HF (5042) 1/4"-HIFLEX
Connector 1	Connector 2	Length	
4.3-10 male	4.3-10 female	150 cm	EC1-HF-S-150-43M43F
NEX10 male	4.3-10 male right angle	200 cm	EC1-HF-S-200-XM43ML
N male	N male	100 cm	EC1-HF-S-100-NMNM

Versions with HLFER cable: EC1-HF-FR-S-xxx-yyyy and EC1-FR-S-xxx-yyyy.