



1/2" Soldered Jumper Cables up to 20 meters

EUPEN offers a wide range of jumper cables with 1/2" Hiflex cable (5092 / EC4-50-HF) or 1/2" standard cable (5128 / EC4-50) with soldered connectors. In particular, we offer "long" jumpers (more than 7 meters). Also available with one loose connector.

See our standard datasheet "Soldered Jumper Cables" for the characteristics of the jumpers up to 7 meters.

Features

- excellent return loss values
- very low PIM
- easy, fast and reliable installation
- water tightness according to IP67/IP68 (mated connectors)
- the overmolding of the connector provides an additional mechanical protection
- **length: 10, 15 or 20 meters**
(other lengths possible on request)



Product reference

EC4-vv-S-www-DyzDyz

EC4-vv-SL-www-DyzDyz

- EC4** = 1/2" cable (5128)
vv = HF for Hiflex (5092)
S = soldered connectors both sides
SL = first connector soldered,
second connector delivered loose
www = length in cm
D/N/43 = Connector type DIN 7-16/N/4.3-10
y = M for male or F for female
z = L for right angle connector
(**z** = nothing for straight connector)



Marking

- Manufacturer EUPEN
- Week & Year of Production
- Product Ref.: for ex.: EC4-HF-S-200-DMDM
- Product Nr. EUPEN
- Serial Number



TECHNICAL DATA SHEET

Long Jumper Cables

Kabelwerk

EUPEN AG

Rev.: 04/2025-08-25

cable

2/2

1/2" Soldered Jumper Cables up to 20 meters

TECHNICAL DATA

Cable type

EC4-50-HF (5092)
1/2"-HIFLEX

EC4-50 (5128)
1/2"

Electrical									
• Nominal impedance [Ω]		50 \pm 1							
• Frequency range [MHz]		10 -3800							
• PIM ratio (2 x 20 W carrier) [dBc]		\leq -155 (Typical -163)							
• Attenuation per m at 20 °C [dB] - without connectors*									
960 MHz		0.105				0.070			
1880 MHz		0.150				0.101			
2200 MHz		0.164				0.110			
2600 MHz		0.179				0.121			
3800 MHz		0.221				0.149			
• RF Voltage rating (Peak) [V]		1130				1600			
• Relative propagation velocity [%]		82				88			
Mechanical									
• Minimum bending radius [mm]									
- single / repeated		30 / 30				70 / 125			
• Connector torque (nominal) [Nm]									
- DIN 7-16 connector				25-30					
- N type connector				3-5					
- 4.3-10 connector				5-8					
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 / 24 h)			
• General environmental						Corrosion and UV resistant			
• RoHS compliance (EU Directive 2011/65/EU)						YES			
Maximum power rating [W] **									
Connector 1	Connector 2	<1.0 GHz	<2.2 GHz	<2.7 GHz	<3.8 GHz	<1.0 GHz	<2.2 GHz	<2.7 GHz	<3.8 GHz
7-16	7-16	880	560	500	420	1090	710	630	520
4.3-10	7-16 or 4.3-10	700	470	420	380	700	470	420	400
N	7-16 or 4.3-10 or N	640	400	350	300	640	400	350	300
Return Loss [dB] ***									
Connector 1	Connector 2	0.38-1.0 GHz		1.7-2.2 GHz		2.5-2.7 GHz		3.3-3.8 GHz	
straight	straight	\geq 32		\geq 27		\geq 26		\geq 21	
straight	right angle	\geq 30		\geq 27		\geq 26		\geq 20	
right angle	right angle	\geq 28		\geq 25		\geq 24		\geq 18	

List of available interfaces :

	DM DIN 7-16 male	DF DIN 7-16 female	DML DIN 7-16 male right angle	NM N male	NML N male right angle	43M 4.3-10 male	43ML 4.3-10 male right angle
Cable EC4-50-HF (1/2" HIFLEX)	✓	✓	✓	✓	✓	✓	✓
Cable EC4-50 (1/2")	✓	✓		✓		✓	

* Typical values without connectors, the typical connector attenuation (2 connectors) is less than 0.02 [dB].

** Ambient temperature = 40 °C; Temperature of inner conductor = 100 °C; VSWR = 1.0; no solar loading.

*** These values of return loss are given for a length of jumper between 7 and 20 meters.

See our standard datasheet for jumpers less than 7 meters.