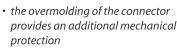
# **SOLDERED JUMPER CABLES**

## with connectors DIN 7-16, N and 4.3-10

**EUPEN** offers jumper cables with 1/2" Hiflex cable (5092 / EC4-50-HF) or 1/2" standard cable (5128 / EC4-50). The connectors are soldered and a wide range of interfaces is available: DIN 7-16, N or 4.3-10, many of them being available as straight or right angle connectors. These jumper cables are designed for watertight applications and optimised performances.

#### **Features**

- excellent return loss values
- very low bending radius:
- · 30 mm for 1/2" Hiflex (5092)
- · 70 mm for 1/2" standard (5128) for single bending (125 mm for repeated bendings)
- very low level of 3<sup>rd</sup> order intermodulation products
- easy, fast and reliable installation
- water tightness according to IP67/IP68 (mated connectors)





#### EC4-vv-S-www-XYZXYZ

**EC4** = 1/2" cable (5128)

 $\mathbf{vv} = \mathsf{HF} \; \mathsf{for} \; \mathsf{Hiflex} \; (5092)$ 

**S** = soldered connector

www = length in cm

X = D for DIN 7-16 type connector N for N type connector 43 for 4.3-10 type connector

 $\mathbf{Y} = \mathbf{M}$  for male or F for female

 $\mathbf{Z} = \mathbf{L}$  for right angle connector

### Marking

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



interface 4.3-10





### Technical data

Cable type*	EC4-50-HF (5092) 1/2"-HIFLEX	EC4-50 (5128) 1/2"
Electrical		
• Nominal impedance $[\Omega]$	5	50 ±1
• Frequency range [MHz]	10	- 2700
• PIM ratio (2 x 20 W carrier) [dBc]	≤ -155 (7	Гурісаl -163)
• Attenuation per m at 20 °C [dB] - without connectors**		
960 MHz	0.106	0.071
1880 MHz	0.151	0.103
2200 MHz	0.170	0.113
2600 MHz	0.187	0.123
• RF Voltage rating (Peak) [V]	1130	1600
• Relative propagation velocity [%]	82	88
Mechanical		
• Minimum bending radius [mm]		
- single	30	70
- repeated	30	125
• Connector torque (nominal) [Nm]		
- DIN 7-16 connector	28	28
- N type connector	12	12
- 4.3-10 connector	8	8

• Temperature range [°C]

-40 to +60 - installation - operating -55 to +85

Protection against water ingress

Water tightness acc. to IP 68 (0.5 bar / 24 h) (mated connectors)

General environmental

Corrosion and UV resistant

• RoHS compliance (EU Directive 2002/95/EC)

YES

Maximum power rating [W]									
Connector 1	Connector 2	Reference	0.8-1.0 GHz	1.7-2.2 GHz	2.5-2.7 GHz	0.8-1.0 GHz	1.7-2.2 GHz	2.5-2.7 GHz	
7-16	7-16	DyzDyz	880	560	500	1090	710	630	
7-16	N	DyzNyz	640	400	350	640	400	350	
N	N	NyzNyz	640	400	350	640	400	350	
7-16	4.3-10	Dy43M	700	470	420	-	-	-	
Return loss [dB] ***									
Connector 1	Connector 2	Reference	0.8-1.0 GHz	1.7-2.2 GHz	2.5-2.7 GHz	0.8-1.0 GHz	1.7-2.2 GHz	2.5-2.7 GHz	
7-16	7-16	DyDy	≥ 32	≥ 28	≥ 28	≥ 32	≥ 29	≥ 29	
		DyDML	≥ 30	≥ 28	≥ 28	-	-	-	
		DMLDML	≥ 28	≥ 26	≥ 26	-	-	-	
7-16	N	DyNy	≥ 32	≥ 28	≥ 28	≥ 32	≥ 29	≥ 29	
		DyNML	≥ 30	≥ 28	≥ 28	-	-	-	
		DMLNy	≥ 30	≥ 28	≥ 28	-	-	-	
		DMLNML	≥ 28	≥ 26	≥ 26	-	-	-	
N	N	NyNy	≥ 30	≥ 27	≥ 27	≥ 30	≥ 27	≥ 27	
		NyNML	≥ 29	≥ 27	≥ 27	-	-	-	
		NMLNML	≥ 28	≥ 26	≥ 26	-	-		
7-16	4.3-10	Dy43M	≥ 32	≥ 28	≥ 28	-	-	-	

<sup>\*</sup> HLFR versions also available

<sup>\*\*</sup> Typical values without connectors, the typical connector attenuation (2 connectors) is less than 0.02 [dB]

<sup>\*\*\*</sup> These values are given for a length of the jumper up to 7 meters.