



3/8" Soldered Jumper Cables

EUPEN offers jumper cables manufactured with

3/8"-HIFLEX cable (EC2-50-HF / 5082)

and soldered **DIN 7-16** or **4.3-10 type connectors** in straight or right angle version.

The high quality connectors are designed for watertight applications and optimized for optimum performances.

FEATURES AND BENEFITS

- *easy, fast and reliable installation*
- *excellent return loss (VSWR) values*
- *high screening effectiveness*
- *low level and stable 3rd order intermodulation products (IM3)*
- *watertight according to IP 68(mated): the cable outer conductor is soldered over 360° to the connector body*
- *high mechanical stability: mechanical reinforcement by the overmolding around the cable/connector junction*
- *LTE compliant*





TECHNICAL DATA SHEET

Jumper Cables

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TECHNICAL DATA

Cable type		EC2-50-HF (5082) 3/8"-HIFLEX			
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		0.138			
1880 MHz		0.199			
2200 MHz		0.217			
2600 MHz		0.238			
3000 MHz		0.258			
3500 MHz		0.281			
3800 MHz		0.295			
• RF Voltage rating (Peak) [kV]		0.9			
• Relative propagation velocity [%]		82			
Mechanical					
• Minimum bending radius [mm]					
- single / repeated		25 / 25			
• Connector torque (nominal) [Nm]					
- DIN 7-16 connector		25-30			
- 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] **					
		0.38-1.0 GHz	1.7-2.2 GHz	2.5-2.7 GHz	3.3-3.8 GHz
		550	350	310	260
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 28	\geq 28	\geq 24
straight	right angle	\geq 30	\geq 28	\geq 28	\geq 23
right angle	right angle	\geq 28	\geq 26	\geq 26	\geq 22

(1) see product reference system on next page.

List of available interfaces:

- DM: 7-16 male straight**
- DML: 7-16 male right angle**
- 43M: 4.3-10 male straight screw type**
- 43ML: 4.3-10 male right angle**

* 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.

*** Jumper length \leq 7 meters.



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PRODUCT REFERENCE SYSTEM

EC2-HF-S-xxx-DyzDyz

Cable type: EC2-HF: 3/8"-HIFLEX - EC2-50-HF (5082)

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: D: DIN 7-16 43: 4.3-10

y = Connector 1 - type: M: male

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

Connector 2: D: DIN 7-16 43: 4.3-10

y = Connector 2 - type: M: male

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

EXAMPLES

Cable type

Connector 1	Connector 2	Length	
DIN 7-16 male straight	DIN 7-16 male straight	150 cm	EC2-HF-S-150-DMDM
DIN 7-16 male right angle	4.3-10 male straight	200 cm	EC2-HF-S-200-DML43M