



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

Kabelwerk

EUPEN AG

Jumper38x
Rev.: 02/2020-12-03

cable

2/3

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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	1.7-2.3 GHz	2.5-2.7 GHz	3-3.8 GHz
	550	350	310	260

Return Loss [dB]***

Connector 1	Connector 2	0.38-1.0 GHz	1.7-2.3 GHz	2.5-2.7 GHz	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-DyzyDyz

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