

# Specification EnovaNxt XLR 3 pin Cable



## Connector Specifications:

Capacity between contacts:  $\leq 4 \text{ pF}$

Contact resistance:  $\leq 3 \text{ m}\Omega$

Breakthrough voltage: 1,5 kVdc

Insulation resistance between contacts and contacts and housing:  $>5\text{G}\Omega \text{ min.}$

Rated current per contact: 16 A

Rated voltage:  $< 50 \text{ V}$

Withdrawal force:  $\leq 20 \text{ N}$

Lifetime of contact elements:  $> 1000$  mating cycles

Cable retention: industry standard



## Cable Specifications:

Test voltage conductor / conductor: 1,2 kV 50Hz AC

Test voltage conductor / shield: 0,8 kV 50Hz AC

Conductor resistance conductor/ shield: max.  $91 \Omega / \text{km}$  at  $+20^\circ\text{C}$  in the cable

Capacitance conductor / conductor: nom.  $116 \text{ pF/m} \pm 5\%$  at 1 kHz

Capacitance conductor/ shield: nom  $187 \text{ pF/m} \pm 5\%$  at 1 kHz

Characteristic impedance: 1 MHz nom.  $85 \Omega \pm 10\%$

Complete product resistance depending on cable length:

XLR Pin	1m	2m	3m	5m	6m	10m	20m
Pin 1 - Shield	43 m $\Omega$	76 m $\Omega$	102 m $\Omega$	185 m $\Omega$	190 m $\Omega$	300 m $\Omega$	585 m $\Omega$
Pin 2 - red	110 m $\Omega$	184 m $\Omega$	265 m $\Omega$	510 m $\Omega$	520 m $\Omega$	830 m $\Omega$	1,63 $\Omega$
Pin 3 - blue	110 m $\Omega$	184 m $\Omega$	265 m $\Omega$	510 m $\Omega$	520 m $\Omega$	830 m $\Omega$	1,63 $\Omega$

## Capacity measurement

Measuring equipment designation: Digital multimeter - Tektronix DMM 4050, MT-01-0053

Measuring line value [pF]:

Item number	Pin assignment	Measured value 1 (Gross) [pF]	Measured value 2 (Gross) [pF]	Measured value 1 (Net) [pF]	Measured value 2 (Net) [pF]
NXT-M1-XLFM-6	Pin 1 and 2	1360	1380	1335	1355
	Pin 1 and 3	1380	1410	1355	1385
	Pin 2 and 3	760	780	735	755

More data on request

**The cable is intended to use for Microphone applications only, with or without phantom power!**