



## Type: 4080-DC-D-B10

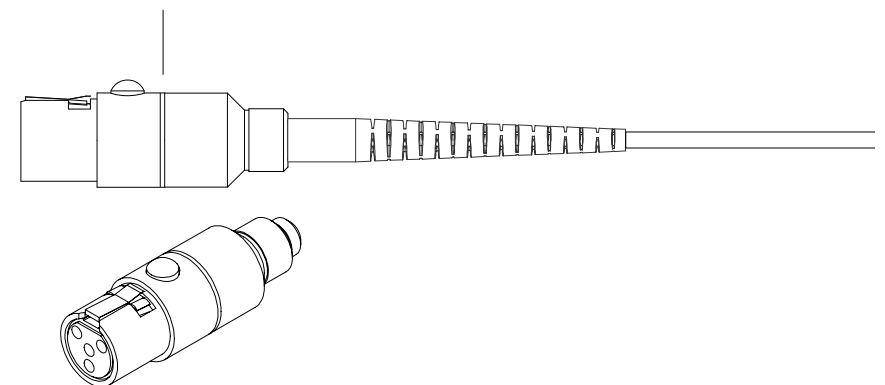
### ARCHITECT SPECIFICATIONS

The directional lavalier microphone shall be a pre-polarized condenser type with a cardioid polar pattern. The microphone shall have an integrated shock mount to absorb unwanted low frequency rumble. The frequency response shall be 20 Hz to 20 kHz with an effective frequency range within  $\pm 2$  dB from 250 Hz to 17 kHz and with a 4 dB soft boost at 4-6 kHz measured at 25 cm (9.8 in). The sensitivity shall be 20 mV/Pa (-34 dB re. 1V/Pa) at 1 kHz within a tolerance of  $\pm 3$  dB. The equivalent noise level shall be 23 dB(A). The microphone shall not exceed 1% THD at 129 dB SPL peak. The microphone shall have a dynamic range of 106 dB. The Max. SPL (10 % THD) shall be 134 dB SPL peak. The rated output impedance shall be 30 – 40  $\Omega$  and the connector type shall be Mini-XLR TA4F. The cable length shall be 1.2 m with a cable diameter of 1.6 mm and in black color. The microphone shall be protected against water and dust to an IP58 rating. The operating temperature shall range from -40°C to 45°C (-40°F to 113°F) and the microphone shall function in humidity levels up to 90%. The polarity of the signal on pin 3 shall be positive going for a positively increasing sound pressure.

The microphone shall be the DPA 4080 Cardioid Microphone type 4080-DC-D-B10



TA4F Mini-XLR



## TECHNICAL SPECIFICATIONS

<b>4080-DC-D-B10</b>	
<b>Directional pattern</b>	Cardioid
<b>Principle of operation</b>	Pressure gradient
<b>Cartridge type</b>	Pre-polarized condenser
<b>Frequency response</b>	20 Hz - 20 kHz
<b>Effective frequency range, <math>\pm 2</math> dB, at 25 cm (9.8 in)</b>	250 Hz - 17 kHz with typ. 4 dB soft boost at 4 - 6 kHz (-5 dB at 100 Hz)
<b>Sensitivity, nominal, <math>\pm 3</math> dB at 1 kHz</b>	20 mV/Pa; -34 dB re. 1 V/Pa
<b>Equivalent noise level, A-weighted</b>	Typ. 23 dB(A) re. 20 $\mu$ Pa (max. 26 dB(A))
<b>Distortion, THD &lt; 1%</b>	126 dB SPL RMS, 129 dB SPL peak
<b>Dynamic range</b>	Typ. 106 dB
<b>Max. SPL, THD 10%</b>	134 dB SPL peak
<b>Rated output impedance</b>	30 - 40 $\Omega$
<b>Power supply (for full performance)</b>	For wireless systems: Min. 5 V - max. 10 V
<b>Current consumption</b>	Typ. 1.5 mA
<b>Connector</b>	TA4F Mini-XLR
<b>Color</b>	Black
<b>Weight</b>	15 g (0.5 oz) incl. Cable and MicroDot connector
<b>Microphone diameter</b>	5.7 mm (0.22 in)
<b>Microphone length</b>	30 mm (1.2 in)
<b>Cable length</b>	1.2 m (3.9 ft)
<b>Polarity</b>	Positively increasing sound pressure produces positive going voltage on TA4F pin 3
<b>Temperature range</b>	-40°C to 45°C (-40°F to 113°F)
<b>Relative humidity (RH)</b>	Up to 90%