4.2 Audio connections

Various cables are needed for different types of applications. The following illustrations show the correct wiring. Always use high-grade cables.

When connecting a balanced input signal, please make sure to exclusively use balanced cables for passing the signal further on. Otherwise, one single unbalanced cable can turn the entire signal unbalanced.

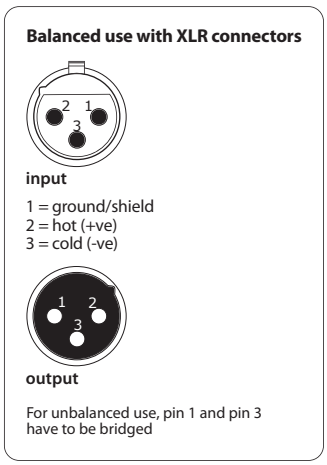

Fig. 4.3: XLR connectors

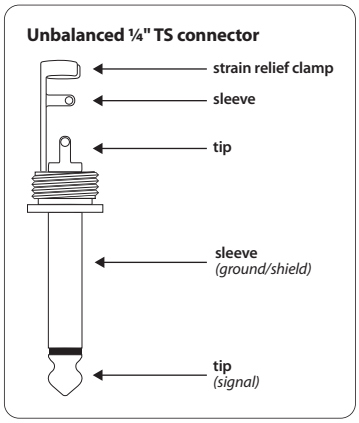

Fig. 4.4: ¼" TS connector

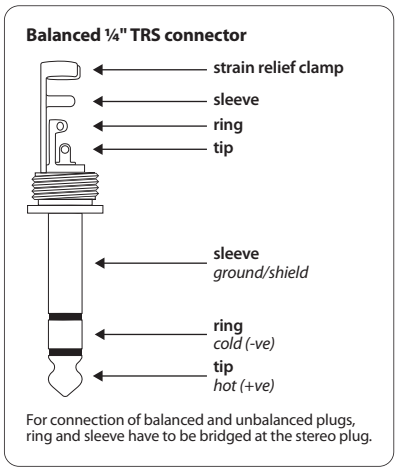

Fig. 4.5: ¼" TRS connector

5. Specifications

EN

Output Power

RMS @ 1% THD (Sine Wave), Both Channels Driven

EP4000	
8 Ω per channel	550 W
4 Ω per channel	950 W
2 Ω per channel	1250 W
EP2000	
8 Ω per channel	350 W
4 Ω per channel	500 W
2 Ω per channel	650 W

RMS @ 1% THD (Sine Wave), Bridged Mode

EP4000	
8 Ω	1750 W
4 Ω	2400 W
EP2000	
8 Ω	1000 W
4 Ω	1300 W

Peak Power, Both Channels Driven

EP4000	
8 Ω per channel	750 W
4 Ω per channel	1400 W
2 Ω per channel	2000 W
EP2000	
8 Ω per channel	400 W
4 Ω per channel	750 W
2 Ω per channel	1000 W

Peak Power, Bridged Mode

EP4000	
8 Ω	2800 W
4 Ω	4000 W
EP2000	
8 Ω	1500 W
4 Ω	2000 W

EN

Distortion

EP4000	< 0.02%
EP2000	< 0.01%

Frequency Response

at 10 dB below rated output power	20 Hz - 20 kHz, +0/-1 dB
at -3 dB points	5 Hz - 50 kHz

Damping Factor

EP4000/EP2000	> 300 @ 8 Ω

Noise

unweighted, 20 Hz to 20 kHz	-100 dB

Voltage Gain

EP4000	50x (34 dB)
EP2000	40x (32 dB)

Input Sensitivity

V RMS (@ 8 Ω)	EP2000 1.15 V (+3.4 dBu) EP4000 1.23 V (+4.0 dBu)

Input Impedance

EP4000/EP2000	10 k Ω unbalanced, 20 k Ω balanced

Controls

Front	Power switch, gain control (channels 1 and 2)
Rear	DIP switches (10x)

Indicators

POWER	green LED
CLIP	red LED, 1 per channel
SIGNAL	yellow LED, 1 per channel

Connectors

Inputs	Balanced XLR and ¼" TRS connectors
Outputs	Touch-Proof binding posts and professional speaker connectors

Cooling

EP4000/EP2000	Continuously variable speed fan, back-to-front air flow

Amplifier Protection

EP4000/EP2000	Full short circuit, open circuit, thermal and HF protection Stable into reactive or mismatched loads

Load Protection

EP4000/EP2000	Turn-on/off muting, AC coupling

Output Circuit Type

EP4000	Class H complementary linear output
EP2000	Class AB complementary linear output

Power Supply

Mains Voltage/Breaker

100 - 120 V~, 50/60 Hz	15 A
220 - 230 V~, 50/60 Hz	8 A

Power Consumption

EP4000	2600 W
EP2000	1600 W
Mains connector	Standard IEC receptacle

Dimensions/Weight

Dimensions (H x W x D)

EP4000/EP2000	approx. 3.5 x 19 x 15.8" approx. 88 x 483 x 402 mm

Weight

EP4000	approx. 36.6 lbs / 16.6 kg
EP2000	approx. 34.6 lbs / 15.7 kg

BEHRINGER makes every effort to ensure the highest standard of quality. Necessary modifications are carried out without notice. Thus, the specifications and design of the device may differ from the information given in this manual.