

Audio: contacts and port roles

22 October 2026 / Revision 2 / AI-assisted source reference; no independent review or hardware validation

Count conductive sections on a disconnected plug, then establish the exact device role and wiring convention. Do not turn an exterior match into a wiring instruction.

TRS	Tip, ring and sleeve are three conductive sections. Socket solder/switch terminals are a different object. [S022]
TRRS	Four exterior conductors do not select CTIA versus OMTP microphone/ground assignment. [S844, S527]
CTIA / OMTP	The Android accessory mechanical table distinguishes the microphone and ground order. Use the named standard and view, not a universal headset assumption. [S844]
TOSLINK / Mini-TOSLINK	Both are optical forms. Mini-TOSLINK uses a 3.5 mm form that can resemble an analog connection. [S845]
Exact device role	A jack may have a specific input/output or headset restriction. The cited Focusrite case is a named-device limit. [S528]

CHECK THE COMPLETE TASK

1. Record whether the photographed object is a plug, receptacle or termination side. Count conducting sections, not black insulating bands alone.
2. Find the headset and device model specifications, audio role and contact convention. Use a documented adapter mapping if one is required.
3. For optical audio, confirm the exact port optical role and format. A 3.5 mm-shaped opening alone is insufficient.

STOP CONDITION

Withhold a compatibility conclusion when the role or microphone/ground convention is unknown. This sheet supplies no retermination, soldering or live test procedure.

Conceptual comparisons only: no photographs, contact-position maps, measured mating geometry or actual-size templates.

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SOURCE TRAIL: EXACT ORIGINAL SCOPE

S022 / Neutrik

NTP3RC miniature phone plug
Product identification
[Open original: www.neutrik.com](http://www.neutrik.com)
Recorded inspection: 2026-10-01

S844 / Android Open Source Project / Google

3.5mm headset: Accessory specification
Mechanical table: four-conductor3.5mm plug, CTIA LRGM and OMTP LRMG; Reference headset test circuits introductory paragraph states MIC/GND exchange.
[Open original: source.android.com](http://source.android.com)
Recorded inspection: 2026-10-21

S527 / Switchcraft

Switchcraft 35RASMT8CHNTRX switched TRRS jack
Configuration: four conductors, horizontal PC/surface mount, jack;
Electrical: TRRS (Tip/Ring Switch).
[Open original: www.switchcraft.com](http://www.switchcraft.com)
Recorded inspection: 2026-10-11

S528 / Focusrite

Scarlett Solo 4th Gen: headphone and line-output roles
Headphone Output and Speaker Outputs sections; page update 16-Jul-2026.
[Open original: userguides.focusrite.com](http://userguides.focusrite.com)
Recorded inspection: 2026-10-11

S845 / CLIFF Electronic Components

TOSLINK Optical Audio Data Cables
Opening optical/light transmission description; TOSLINK to Mini-TOSLINK3.5mm lead sets; Mini-TOSLINK optical jack plug; FM65215/FM65220/FM65225 and FM65010 adapter listings.
[Open original: www.cliffusa.com](http://www.cliffusa.com)
Recorded inspection: 2026-10-21

EVIDENCE NOTE: RETAIN THE EXACT MODEL AND SOURCE

Headset / cable model:

Named convention / exact adapter mapping:

Device model + jack role:

Unresolved contact or optical-format evidence:

Inherited scoped research reused; not every source was reopened for this sheet. No source artwork, logos or full manuals are redistributed. Missing or unverified fields remain unresolved. No independent review or hardware validation.