TRI-BRIDGE

UNIVERSAL POWER AND DATA CABLE

OVERVIEW

The TRI-Bridge universal power and data Y cable, P/N C50010NW, connects drone controllers like the Kutta Tactical Controller (KTAC) to software defined radio systems like the Silvus StreamCaster SC4200, with power throughput supplied by a CPS S-PACE wedge.



Standard cables move data and charge small accessories like EUDs but fall short of the power requirements for larger accessories. Enter S-PACE with TRI-Bridge. Installed in-line between the radio and the battery, S-PACE juices up the output and TRI-Bridge connects it all.

Validated through Kutta and Saronic Technologies on fielded hardware.

CONFIGURATION

- **Overall Length – 54 inches**
- **Passive Y Junction Passthrough**
- ***S-PACE* Wedge Provides Required Power Input**

KEY FEATURES & CAPABILITIES

Charging and Data on One Connector

USB 2.0 and regulated 12 VDC reach the controller through a single Nett Warrior connection.

Fully Passive

No conversion stage. No potted converter body, thermal case, or switching noise.

Regulated 12 VDC

The S-PACE holds output regardless of source battery state of charge, so charging continues as cells deplete.

Uses Batteries Already Carried

Draws from the radio twist lock battery pack rather than adding a dedicated, novel battery to the load.



Kutta KTAC universal UXS controller, Silvus 4200 w/S-PACE wedge

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TRI-BRIDGE

POWER SOURCES & TECHNICAL SPECIFICATIONS

EXTERNAL POWER SOURCE OPTIONS

S-PACE
Single twist lock power distribution/charging. 12 V regulated, 36 W, 3 A output.

M-PACE
Dual twist lock power adapter and charger in one. Hot-swappable, 36 W, 3 A.

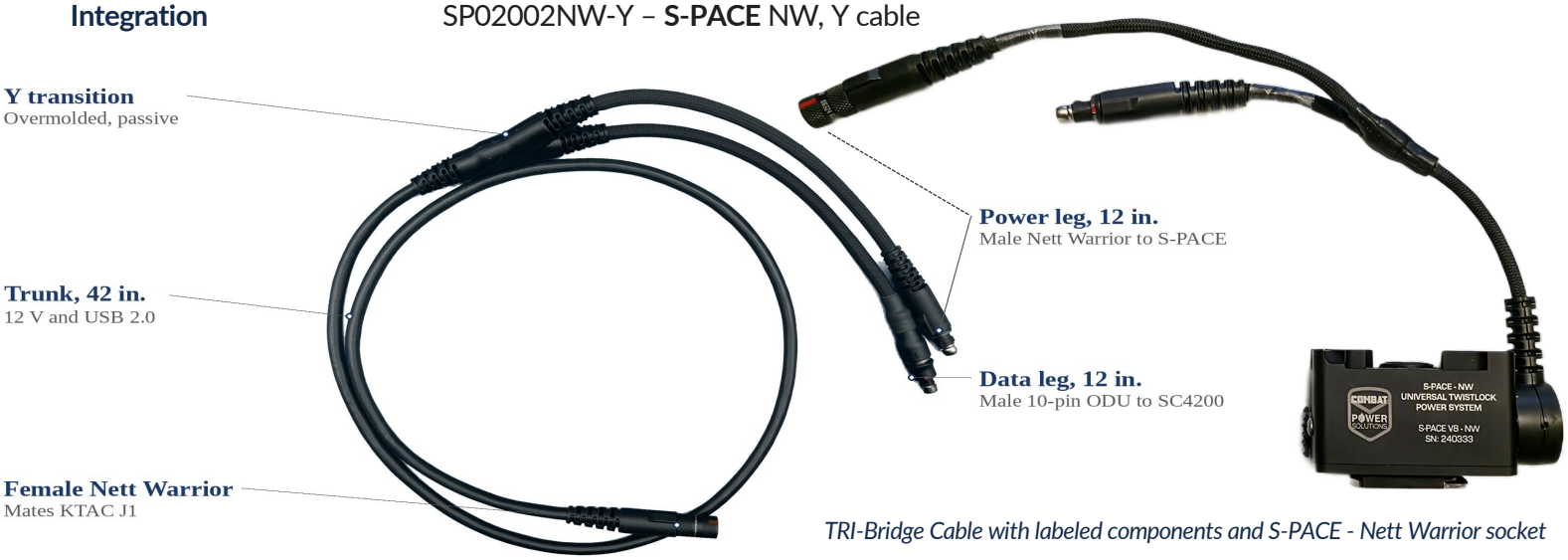
MIPA
Lightweight, dual twist lock power scavenger. 5 A output. Hot-swappable.

12 VDC AUTO CABLE
Power cable for vehicle accessory socket. Terminated with Nett Warrior connector.

NOTE: All supplemental DC power sources connect at the S-PACE Nett Warrior socket, not the controller harness power leg.

TECHNICAL SPECIFICATIONS

Part#/Product	C50010NW – TRI-Bridge, universal power and data cable
Overall Length	54 in.
Power Leg	12 in., Nett Warrior male, 6-pin. Mates the S-PACE regulated output
Data Leg	12 in., ODU AMC Size 0, 10-pin male. Mates the SC4200 AUX receptacle
Trunk	42 in., Nett Warrior female, 6-pin. Mates controller J1
Y Transition	Passive, overmolded TPU
Power Delivered	12 VDC regulated, up to 3 A and 36 W (S-PACE port ceiling)
Data	USB 2.0
Construction	22 AWG power pair; 28 AWG shielded data pair, 90 Ohm; overall braid
Integration	SP02002NW-Y – **S-PACE** NW, Y cable



TRI-Bridge Cable with labeled components and S-PACE - Nett Warrior socket

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