

AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

ICS Triplex TC-501-02-6M5

Internal Input SmartSlot Cable

CABLE LENGTH	I/O CLASS	ARRANGEMENT	INSULATION
6.5 meters	40-channel input	Internal SmartSlot	LSZH

TC-501-02-6M5 is the 6.5-meter low-smoke, zero-halogen internal SmartSlot cable for documented Trusted analogue or digital input modules. It carries input signals from a compatible internal field termination assembly to the module through different chassis-side and termination-side connectors.

01

PRODUCT IDENTITY AND SPECIFICATIONS

Product model	TC-501-02-6M5
Nominal cable length	6.5 m; complete order-code suffix
Cable arrangement	Internal SmartSlot V2; input to FTA
Documented I/O class	40-channel TMR analogue or digital input
Chassis-end connector	96-way type C; single-width TC-500 hood
FTA-end connector	96-way type R; single-width hood

02 TECHNICAL DATA

Cable insulation	Low smoke zero halogen; -02 variant
Protective covering	Nylon Rilgain sleeving
Safety-earth connections	Sheathed braid at both connector hoods
Screen-earth connection	Screen drain to green wire at the FTA end
Recommended I/O cable length	15 m maximum recommended; longer routes require assessment
Catalog electrical limit	60 V / 2 A maximum per channel
Flame-retardant reference	IEC 60332-3 Category A for -02 cable

03 APPLICATION AND CONFIGURATION

- Oil & Gas: Oil Production, Gas Processing and Petroleum Transportation Facilities.
- Chemical Processing: Chemical Manufacturing, Batch Processing and Industrial Formulation Facilities.
- Power Generation: Gas Turbine Generation and Combined Cycle Power Stations.

04 OFFICIAL DOCUMENTATION

[ICSTT-RM313Q-EN-P | Trusted TMR I/O SmartSlot Cables | Issue 19](#)

RM313Q PDF p. 1: length and routing; p. 15: Figure 1 and construction; pp. 5-6: warnings. PC002G PDF p. 6: electrical limit.

[ICSTT-PC002G | Trusted Product Information | December 2025](#)

Independent Amikon reference, not an OEM manual. Use the complete manufacturer instructions matching the actual hardware and firmware. No manufacturer pages are reproduced.

AMIKON PRODUCT SUPPORT

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