

TC-301-02-4M5

Trusted TMR Expander Interface Communications Cable

PRODUCT TECHNICAL REFERENCE

ICS Triplex TC-301-02-4M5 is a 4.5 m screened LSZH communications cable for the Trusted expander interface. It connects a T8310 Expander Processor to the designated position on a T8312 Expander Interface Adapter Unit.

OFFICIAL SOURCE

Trusted Communications Cables | ICSTT-RM312N-EN-P (PD-TC300) Issue 17

Verified technical profile

Trusted TMR Expander Interface Communications Cable

Cable family	TC-301-02
Ordered length	4.5 m
Cable construction	Cat 6 Plus, screened
Outer sheath	LSZH
Processor-end connector	96-way type C, double-width hood
Adapter-end connector	12-way LEMO plug
Earth connection	Hood earth braid
Maximum family length	30 m
Connected processor	T8310
Connected adapter	T8312

ENGINEERING USE OF THE VERIFIED DATA

Route the screened LSZH cable between the correct Trusted chassis positions without crushing, twisting or exceeding the allowed bend and length constraints. Acceptance includes connector seating, earth-braid continuity, cable identification and expander-interface communication diagnostics.

FIELD CHECKPOINTS

- Confirm the complete TC-301-02-4M5 marking and 4.5 m length.
- Place the Trusted expander link in the approved maintenance state.

Only values traceable to the listed manufacturer source are treated as verified technical data.

System role and engineering boundaries

ICS Triplex TC-301-02-4M5 is a 4.5 m screened LSZH communications cable for the Trusted expander interface. It connects a T8310 Expander Processor to the designated position on a T8312 Expander Interface Adapter Unit.

1

Links the T8310 Expander Processor to the T8312 interface adapter

2

Uses screened Cat 6 Plus cable with an LSZH sheath

3

Provides dedicated 96-way and 12-way connector terminations

4

Maintains a model-coded 4.5 m Trusted communications path

ENGINEERING NOTE

Align the 96-way type C and 12-way LEMO connectors before insertion and tighten only by the specified connector hardware; never use the cable body to pull a plug into place. Verify the hood earth braid, screened route and exact 4.5 m article marking before restoring the expander link.

Industrial application matrix

Four source-supported operating contexts for this exact product.

Trusted chassis expansion

Carries the expander link between the processor and interface adapter in a distributed Trusted arrangement.

Safety-system cabinet interconnect

Provides a screened communications route between designated Trusted rack positions.

Legacy expander cable replacement

Restores the same connector roles and ordered length during controlled maintenance.

Low-smoke cabinet wiring

Uses the documented LSZH cable construction for an engineered enclosure route.

MODEL-SPECIFIC ACCEPTANCE FOCUS

Confirm TC-301-02-4M5 identity and length, T8310 and T8312 endpoints, connector keying, 96-way hood, 12-way LEMO plug, earth braid, cable route, grounding, chassis assignments and restored expander communications before commissioning.

Related-series navigation

Eight verified Apter Power product pages, kept separate from the manufacturer source record.

RELATED APTER POWER SERIES PAGES	
01	TC-301-02-15M0 Apter Power product page
02	TC-302-02-4M0 Apter Power product page
03	TC-303-02-4M0 Apter Power product page
04	TC-311-02 Apter Power product page
05	T8830C Apter Power product page
06	T8431C Apter Power product page
07	T8403C Apter Power product page
08	T9110 Apter Power product page

Navigation links only - not manufacturer evidence for technical parameters.

SOURCE RECORD

Trusted Communications Cables | ICSTT-RM312N-EN-P (PD-TC300) Issue 17

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