

3300 SYSTEM

Product Data Sheet

102045-040-01

4 Meter Armored Cable

FUNCTION	FAMILY	ORIGIN	WEIGHT
4 Meter Armored Cable	3300 System	USA	0.1 kg

3300 System 102045-040-01 is a 4 Meter Armored Cable for the 3300 System. The values below are limited to the exact documented article.

01

VERIFIED TECHNICAL DATA

Conductor resistance	$\leq 58 \Omega/\text{km}$
Characteristic impedance	50 Ω @ 1 MHz
Velocity of propagation	0.70 c
Voltage rating	300 V rms
Temperature range	-29 ... +121 °C (-20 ... +250 °F)
Exact Part Number	102045-040-01
Product Family	3300 System
Component Type	4 Meter Armored Cable
Measurement Principle	Eddy-current proximity sensing
Nominal Probe Tip	8 mm sensor family

Power Supply	-17.5 to -26 V DC
Scale Factor	7.87 V/mm nominal
Linear Range	0.25 to 2.30 mm
Frequency Response	0 to 10 kHz
Target Material	AISI 4140 steel

- Apply the documented 4 Meter Armored Cable: Use 102045-040-01 in the documented 3300 System measurement or protection channel. Match the exact order code, installed position, signal range and monitored machine function before work.
- Restore the recorded 4 Meter Armored Cable connections: Photograph terminals, coaxial connectors, shields, earth points, rack slot and adjacent hardware before removing 102045-040-01. Restore each connection to the controlled drawing.
- Validate the complete 4 Meter Armored Cable signal path: After installing 102045-040-01, check transducer supply, gap or zero, signal response, alarms and rack diagnostics. Record the measured values before releasing the machine channel.

Match 102045-040-01 to the installed 3300 System, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

[Bently Nevada 102045-040-01 manufacturer documentation](#)

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