

CA-CH10

10 m High-Speed Camera Cable

KEYENCE CA-CH10 is a 10 m high-speed camera cable. It connects a compatible KEYENCE industrial camera to the assigned vision-system controller.

PRODUCT SNAPSHOT

BRAND
KEYENCE

FAMILY
KEYENCE high-speed machine-vision cameras

PART
CA-CH10

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PRODUCT OVERVIEW

KEYENCE CA-CH10 is a 10 m high-speed camera cable. It connects a compatible KEYENCE industrial camera to the assigned vision-system controller.

- 1

Carries camera power and high-speed image data
- 2

Connects a supported high-speed camera to its vision controller
- 3

Maintains the defined camera-to-controller interface over a ten-metre run
- 4

Supports fixed industrial routing within the camera installation

SYSTEM COMPONENTS

- supported KEYENCE high-speed camera
- compatible vision controller
- camera-cable strain relief
- machine cable supports

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
GT2-H32	High-accuracy digital contact sensor head	Open product page

TECHNICAL DATA

PARAMETER	VALUE
Cable type	High-speed camera cable

PARAMETER	VALUE
Cable length	10 m

SYSTEM CONNECTION AND ACCEPTANCE RECORD

RECORD ITEM	DOCUMENTED ASSIGNMENT
Installed host / carrier	supported KEYENCE high-speed camera
Companion hardware	compatible vision controller
Field connection	camera-cable strain relief
Primary system function	Carries camera power and high-speed image data
Controlled acceptance duty	Remote camera connection in large machines

TECHNICAL NOTE

Route CA-CH10 as a protected signal cable, prevent connector loading and tight bends, and verify stable image transfer and triggering after the complete 10 m run is installed.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Remote camera connection in large machines

Carries camera power and high-speed image data

Overhead inspection-station cabling

Connects a supported high-speed camera to its vision controller

Long conveyor vision-cell integration

Maintains the defined camera-to-controller interface over a ten-metre run

Cabinet-to-enclosure camera routing

Supports fixed industrial routing within the camera installation

PRODUCT PRECAUTIONS

- 1 Verify CA-CH10 and the ten-metre length before routing.
- 2 Power down the camera and controller before connecting either end.
- 3 Protect connector contacts from contamination and ESD.
- 4 Do not pull the cable by its connector shells.
- 5 Maintain bend radius and mechanical separation from high-current conductors.
- 6 Provide strain relief so machine motion cannot load the camera receptacle.
- 7 Inspect the complete route for crushing, abrasion, and unintended tension.
- 8 Confirm stable acquisition, trigger timing, and image integrity before production.

ENGINEER FAQ

Q1 Which configuration check is essential when commissioning CA-CH10?

Restore only the approved model-specific channel, range, address, scale, or interface settings and compare them with the physical installation before enabling the process function.

Q3 What should be checked if CA-CH10 reports an unstable or incorrect value?

Check seating, supply, grounding, shielding, matched components, mechanical installation, and the signal path before changing configuration or replacing additional hardware.

Q5 What commissioning evidence should be retained for CA-CH10?

Retain the full CA-CH10 identity, as-left wiring and settings, measured functional-test results, final diagnostics, and authorization to return the affected equipment to service.

Q7 How should the field connections for CA-CH10 be recorded before replacement?

Record terminal or connector identity, polarity, shield, cable tag, channel assignment, and the as-found diagnostic state before disconnecting CA-CH10.

Q2 How can an engineer function-test CA-CH10 after installation?

Apply a controlled input, reference, or limited output appropriate to 10 m high-speed camera cable, observe the system indication and diagnostics, and confirm the intended process response.

Q4 Can CA-CH10 be replaced by a visually similar model without review?

No. Verify the complete part number, electrical execution, connector arrangement, companion hardware, and approved software or rack configuration.

Q6 Which installed hardware must be matched before fitting CA-CH10?

Match the complete CA-CH10 marking to supported KEYENCE high-speed camera and compatible vision controller, then confirm the assigned KEYENCE high-speed machine-vision cameras position and approved system configuration.

Q8 What isolation is required before installing CA-CH10?

Place remote camera connection in large machines in the approved maintenance state, isolate every applicable power, signal, and stored-energy source, and prove the work area safe.