

► Industrial ROBOT CAT6 Ethernet-Cable

Industrial ROBOT CAT6 Ethernet-Cable (UL-approved - UL AWM Style 20963 80°C 30V)

The modern, industrial grade cables are best suited for Ethernet CAT6 data transfer. The outer sheath is made from polyurethane and guarantees a high level of mechanical resistance with respect to impact resistance, scuff resistance, thermal resilience and resilience to oils and coolants. All these features are fundamental requirements in modern industrial plants. The industrial grade outer sheath and resilience to UV light also open up the way to outdoor applications.

The Ethernet cables are suitable for use in temperatures ranging from -40 °C to +90 °C. Applications in tough environments, for instance in the vicinity of welding units, will benefit from these robust cables, as well systems in automotive plants, for instance in paint shops where the cables must be free of paint-wetting impairment substances (VW-Standard P-VW 3.10.757650 Pt. 3.3.2) such as silicone, oil or grease.

Specifications

Construction

Sheath:	Special-PUR, abrasion-resistance, scuff resistant, halgon-free
Colour:	black (similar to RAL 9005)
Outer-Ø:	8.3 ± 0.2 mm
Connector types:	RJ45 straight, moulded RJ45 horizontal with screws, moulded RJ45 vertical with screws, moulded Industrial field connector

Electrical data

Conductor resistance:	≤ 140 Ω/km
Insulating resistance:	> 200MΩ x km
Supply voltage:	≤ 60 V
Delay:	Specification in CAT6 Standard
SKEW:	Specification in CAT6 Standard
Impedance:	Specification in CAT6 Standard

Other data

Temperature:	-40 °C to +90 °C (storage and transport) -20 °C to +90 °C (operation) -30 °C to +90 °C (laying and usage)
Bend radius:	singular: ≥ 3 x cable-Ø moved minimal: ≥ 10 x cable-Ø moved optimal: ≥ 15 x cable-Ø
Bend cycle:	Trailing operation: ≥ 3.000.000 cycles by 10 x cable-Ø Torsional operation: ≥ 1.000.000 cycles by ± 180 ° rotation angle + clamping length 700 mm

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