

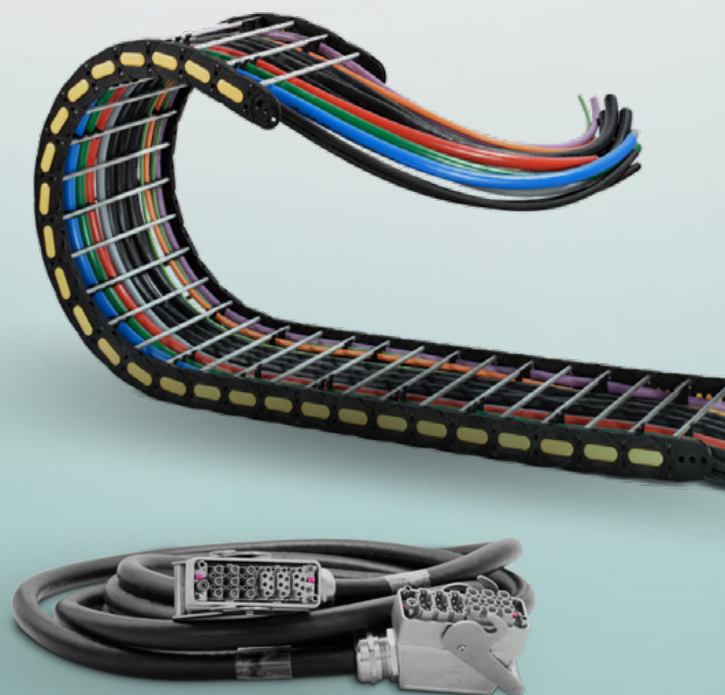
Sumflex®

Mechatronic Robot Connection Cable

For the KUKA KRC4

Prefabricated robot connection and positional-axis-arm cables for KUKA industrial robots

sumcab
ROBOTICS



As a manufacturer and packager of special cables, SUMCAB can cover all your cabling needs from a single source, which reduces processing time and the number of suppliers you have to deal with. A recent addition to our product portfolio is the Sumflex® Mechatronic ‚Robot Connection Cable‘ range.

Specially developed for the transmission of power output and control signals for the reliable operation of the servomotors for the 6 positional axis arms in the KUKA Quantec robot.

In addition, the Robotic Connection Cable range includes an extensive assortment of cables with factory-fitted connections made to original manufacturer standards.

All cable types included in the range comply fully with the quality, certification and conformity requirements specified in the KUKA Quantec standard. All components undergo extensive quality and functionality checks – our QA documentation can be provided on request.

In addition to standard static installations in cable ducting, the ‚Robot Connection Cables‘ are also designed for use in the drag chain of the robot’s positional-axis-arm. Also included is a selection of prefabricated connector and control cables for the servomotor of the 7th standalone axis.



Technical Specifications

Nominal voltage	600 V
Test voltage	2.5 kV (core / core) / 1.0 kV (core / sheath)
Conductor resistance (Ω/km @ 20° C)	in compliance with DIN VDE 0295 / IEC 60228
Minimum bend radius	7.5 x D (optimum 10 x D)
Temperature range	-40° C to +80° C
Oil resistance	Oil resistant (compliant with UL 758 and EN 50363-10-2)
Heat resistance	Heat resistant (compliant with UL 94 Classification V-2)

The conductor is free of silicon and other substances that hinder the application of surface paint / coating products

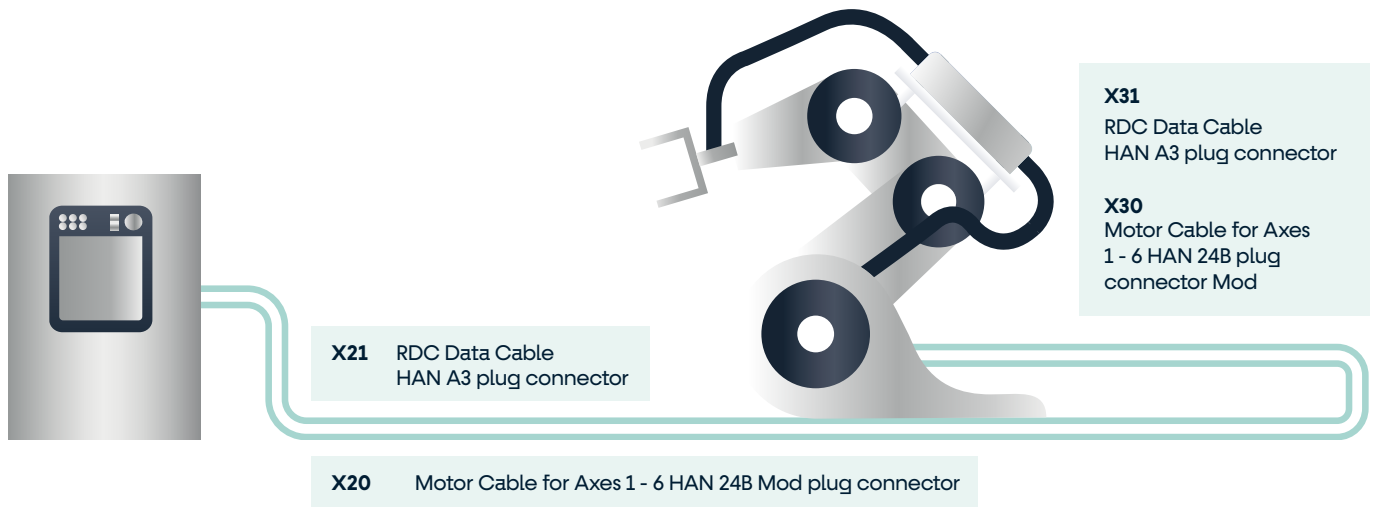


Composition

Conductor	Flexible strand of bare copper wires (compliant with DIN VDE 0295 / IEC 60228 Class 6)
Insulation	TPE
Outer sheath	PUR matt (rough surface, low adhesion), halogen free and flame retardant
Outer sheath colour	Black



Robot Connection Cables for the KUKA KRC4 – Quantec Generation*



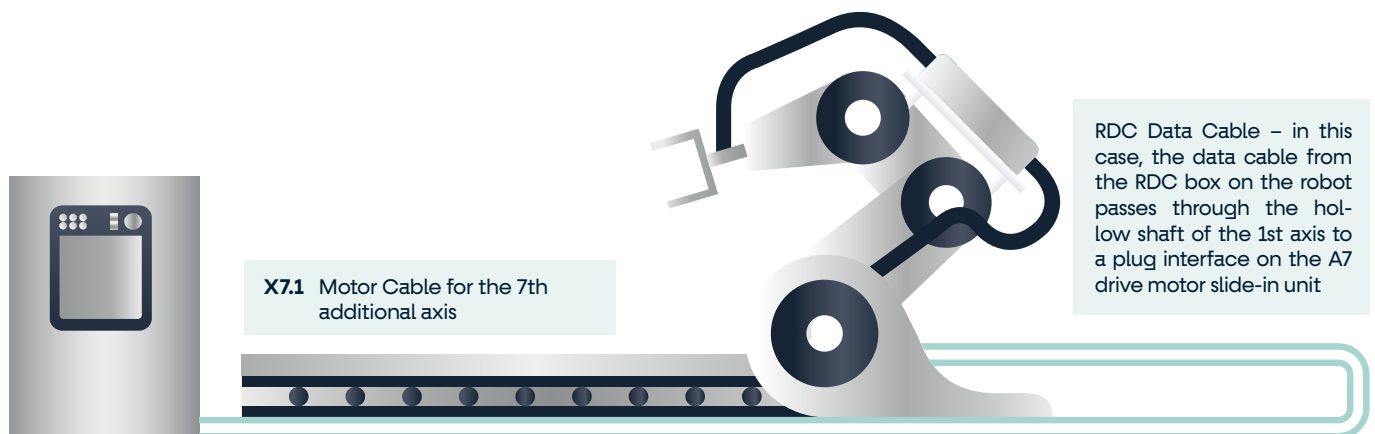
Connector Product Name	Item No.: 7 m	Item No.: 15 m	Item No.: 25 m	Item No.: 35 m	Item No.: 50 m
Motor Cable for X20 / X30 Connection	81.404.001.101.007	81.404.001.101.015	81.404.001.101.025	81.404.001.101.035	81.404.001.101.050
RDC Data Cable for X21 / X31 Connection	81.404.001.102.007	81.404.001.102.015	81.404.001.102.025	81.404.001.102.035	81.404.001.102.050
** PE 16mm²	81.403.000.000.013	81.403.000.000.012	81.403.000.000.015	81.403.000.000.016	81.403.000.000.017

Custom lengths available on request



Positional-Axis-Arm Cables for the KUKA KRC4 – Quantec Generation*

Additional drag-chain cables for the positional axis arm (7th additional axis)



Connector Product Name	Item No.: 7 m	Item No.: 15 m	Item No.: 25 m	Item No.: 35 m	Item No.: 50 m
X7.1 – Motor Cable for 7th additional axis	81.404.001.103.007	81.404.001.103.015	81.404.001.103.025	81.404.001.103.035	81.404.001.103.050
RDC – Data Cable for 7th additional axis	81.404.001.104.007	-	-	-	-

Custom lengths available on request

* Not a heavy-load robot (please submit a separate enquiry)

**PE (potential equalisation) 16 mm² single conductor yellow/green – pre-assembled with M8 ring cable lug at both ends



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www.sumcab.de
vertrieb@sumcab.de
+49 7941 / 646 70 0