



## Sumflex® Mechatronic Robot Connection Cable - For the KUKA KRC2

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

**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 S2000 robot.

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

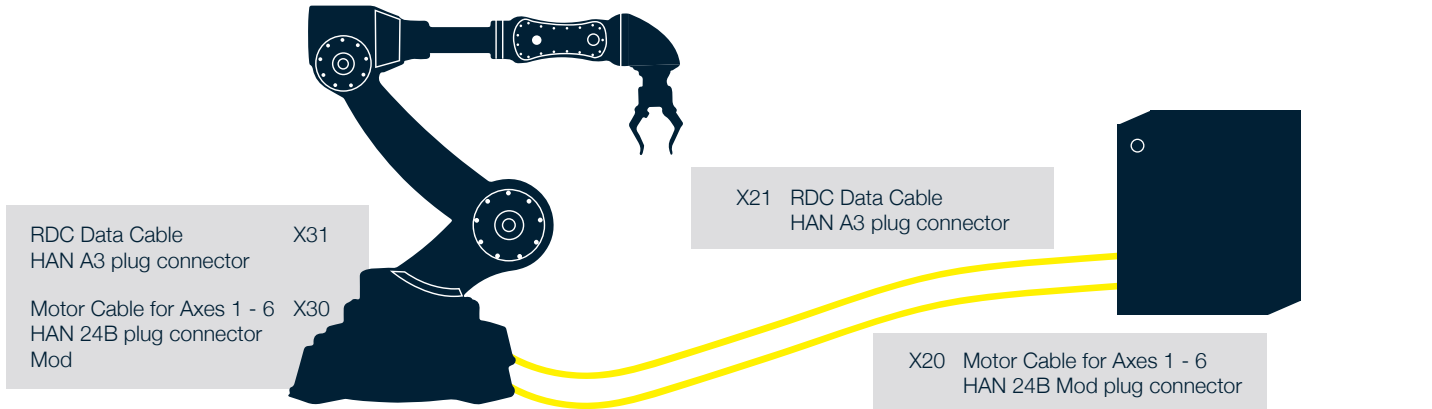
All cable types included in the range comply fully with the quality, certification and conformity requirements specified in the KUKA S2000 standard. All components undergo extensive quality and functionality checks – our QA documentation can be provided on request.

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) in compliance with DIN VDE 0295 / IEC 60228
Conductor resistance (Ω/km @ 20° C):	
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 KRC2 – Generation S2000\*

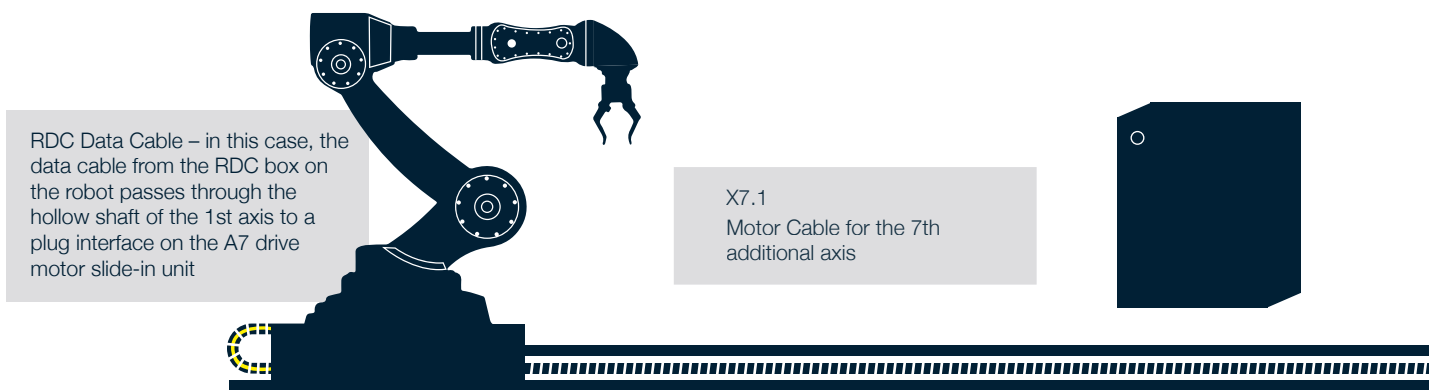


Connector Product Name	Item No.: 7 m	Item No.: 15 m	Item No.: 25 m	Item No.: 35 m	Item No.: 50 m
Motor Cable for X20 / X30 Connection	81.404.110.201.007	81.404.110.201.015	81.404.110.201.025	81.404.110.201.035	81.404.110.201.050
RDC Data Cable for X21 / X31 Connection	81.404.110.202.007	81.404.110.202.015	81.404.110.202.025	81.404.110.202.035	81.404.110.202.050
** PE 16mm <sup>2</sup>	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 KRC2 – Generation S2000\*

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	81.404.110.205.007	81.404.110.205.015	81.404.110.205.025	81.404.110.205.035	81.404.110.205.050

Custom lengths available on request

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

\*\*PE (potential equalisation) 16 mm<sup>2</sup> single conductor yellow/green – pre-assembled with M8 ring cable lug at both ends