

ZK4541-0020-xxxx | Extension cable for thermal protection cables 0.14 mm², drag-chain suitable



D-sub, socket, straight, male, 9-pin – D-sub, plug, straight, female, 9-pin



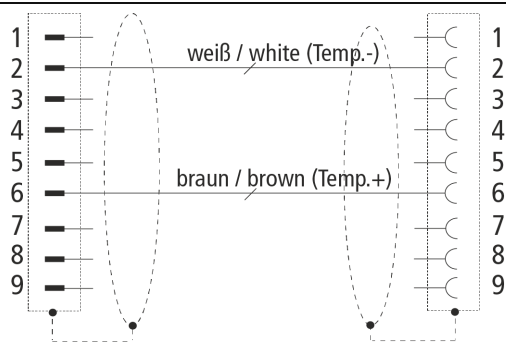
Plugs

Electrical data	Head A	Head B
Mechanical data		
Accessories type	-	Connector/cable
Installation size	D-sub	D-sub
Connector type	socket	plug
Configuration	straight	straight
Contact type	male	female
Number of positions (face)	9-pin	9-pin
Wire termination	solder connection	solder connection
Way of locking	screw	screw
Body colour	metal	metal
Environmental data		
Ambient temperature (operation)	-50...+105 °C, -58...+221 °F	-50...+105 °C, -58...+221 °F
Protection class	IP 20	IP 20

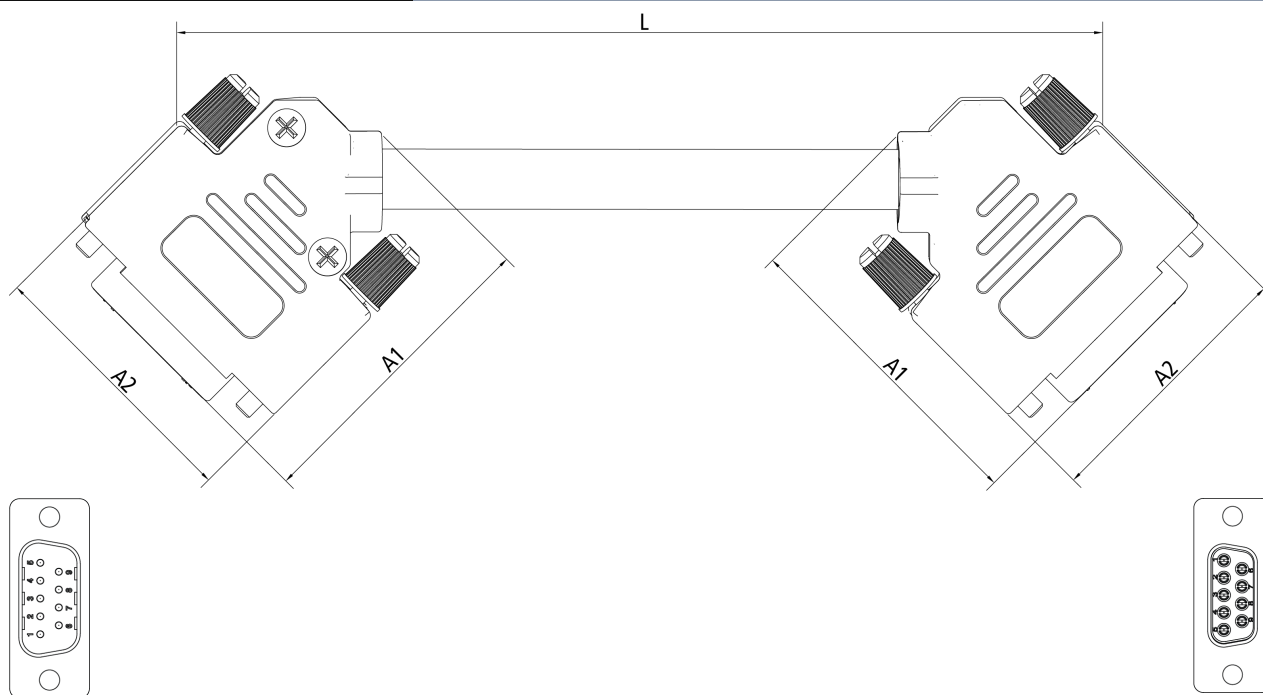
Cable

Electrical data	
Operating voltage	≤ 300 V
Insulation resistance	≥ 1 GΩ * km
Wire resistance	≤ 138.8 Ω/km
Test voltage	1500 V (wire/wire and wire/screen)
Mechanical data	
Cross section	2 x 2 x 0.14 mm ²
Min. bending radius, moved in drag chain	7 x outer cable diameter
Outer cable diameter	5.4 mm ± 0.2 mm (0.213" ± 0.0079")
Conductor material	copper, tinned
Optical covering factor of shielding	≥ 85%
Use	drag-chain suitable
Max. acceleration	30 m/s ²
Max. speed	4 m/s
Max. travel distance	20 m (horizontal)
Max. number of cycles	10 million
Jacket colour	green
Material jacket	PUR (polyurethane)
Torsion angle in °/m	max. ± 30 °/m
Max. tensile load, dynamic	20 N/mm ²
Max. tensile load, static	50 N/mm ²
Environmental data	
Operation temperature range, moved	-20...+80 °C, -4...+176 °F
Operation temperature range, fixed installation	-50...+80 °C, -58...+176 °F
Oil resistance	according to UL 1581
Flame-retardant	according to IEC 60332-1
CFC-free	yes
Halogen-free	yes
Silicone-free	yes
RoHS compliant	yes
Approvals	UL 758 (AWM) Style 20549 80°C 300V

Contact assembly



Dimensions



A1	43.00 mm
A2	32.00 mm
B1	43.00 mm
B2	32.00 mm

Notes

- Depending on the cable length (L), the following length tolerances apply: $\pm 2-3 \%$
- Illustrations similar
- The last three digits of the ordering information is the cable length in decimeters, e.g. ZK4xxx-xxxx-x020 = cable length 2.00 m

Ordering information

Length

ZK4541-0020-xxxx

xxxx = cable length in decimetres

xxxx = 0050

example for 5 m length

sold by the metre, admissible total cable length see documentation of Servo Drive

Beckhoff®, TwinCAT®, TwinCAT/BSD®, TC/BSD®, EtherCAT®, EtherCAT G®, EtherCAT G10®, EtherCAT P®, Safety over EtherCAT®, TwinSAFE®, XFC®, XTS® and XPlanar® are registered trademarks of and licensed by Beckhoff Automation GmbH. Other designations used in this publication may be trademarks whose use by third parties for their own purposes could violate the rights of the owners.

© Beckhoff Automation GmbH & Co. KG 09/2021

The information provided in this brochure contains merely general descriptions or characteristics of performance which in case of actual application do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.