ZK4000-2102-2zzz www.beckhoff.com/ZK4000-2102-2zzz

ZK4000-2102-2zzz | Connecting cables 2.5 mm², not assembled, drag-chain suitable



Electrical data	
Operating voltage	max. 1000 V AC (UL)
Insulation resistance	\geq 500 M Ω * km (DIN EN 50395)
Wire resistance	2.5 mm ² : \leq 7.98 Ω/km, 1.0 mm ² : \leq 19.5 Ω/km
Test voltage	4000 V, 50 Hz, 1 min. (wire/wire and wire/screen)
Mechanical data	
Cross section	4 x 2.5 mm ² + 2 x 1 mm ²
Min. bending radius, moved in drag chain	7.5 x outher cable diameter
Min. bending radius, fixed installation	4 x outer cable diameter
Weight	265 kg/km (178.054 lb/1000 ft)
Outer cable diameter	12.7 mm ± 0.3 mm (0.5" ± 0.0118")
Conductor material	Copper bare
Optical covering factor of shielding	≥ 85%
Use	drag-chain suitable
Max. acceleration	50 m/s² (depending on travel distance)
Max. speed	5 m/s
Max. number of cycles	10 million
Jacket colour	orange



ZK4000-2102-2zzz www.beckhoff.com/ZK4000-2102-2zzz

Material jacket	PUR (polyurethane)
Wire insulation material	PP (polypropylene)
Printing colour	black
Torsion angle in °/m	max. ± 30 °/m
Environmental data	
Operation temperature range, moved	-30+80 °C, -22+176 °F, in drag-chain applications: -20+60 °C, -4+140 °F
Operation temperature range, fixed installation	-50+80 °C, -58+176 °F
Oil resistance	according to DIN EN 60811-2-1, HD22.10 appendix A
Flame-retardant	according to IEC 60332-1-2 UL758 cable flame test
Halogen-free	according to DIN VDE 0472 Teil 815
Silicone-free	yes
RoHS compliant	yes
Approvals	UL758 (AWM) Style 21223 (jacket) and Style 10492 (core)

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
ZK4000-2102-2zzz	sold by the metre

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.

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 expressively agreed in the terms of contract.