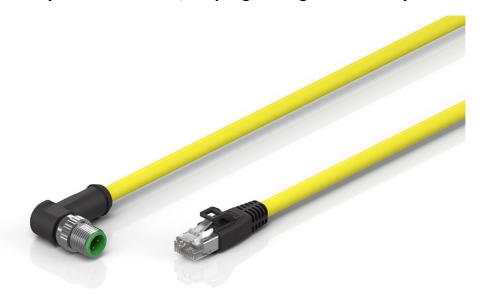
ZK1093-6391-0xxx | EtherCAT cable, PUR, AWG22, drag-chain suitable



M12, plug, angled, male, 4-pin, D-coded – RJ45, plug, straight, male, 4-pin



Plugs

Electrical data	Head A	Head B
Rated voltage	160 V (according to IEC 61076-2-101)	150 V
Rated current	4 A at 40°C (according to IEC 61076-2-101)	1.5 A
Rated impulse voltage	2.5 kV	-
Shielding	yes	yes
Contact resistance	< 5 mΩ	-
Insulation resistance	≥ 10 G Ω (according to IEC 60512-2)	≥ 10 G Ω (according to IEC 60512-2)
Mechanical data		
Installation size	M12	RJ45
Connector type	plug	plug
Configuration	angled	straight
Contact type	male	male
Number of positions (face)	4-pin	4-pin
Coding	D-coded	-
Recommended torque, nut	0.6 Nm	-

Mating cycles	\geq 100 (according to IEC 60512-9a) \geq 750	
Way of locking	screw	-
Body color	black	black
Body material	TPU, UL 94	TPU, UL 94 HB
Coupling nut material	CuZn, Ni	-
Seal	FPM	-
Contact carrier color	green	-
Contact carrier material	TPU GF, UL 94	PC UL 94 V-0
Contact plating	Ni, Au gal.	Ni, Au gal.
Contact material	CuZn	CuZn
Environmental data		
Special features	halogen-free, flame-resistant as per IEC 60332-1-2, oil-resistant as per - DIN EN 60811-2-1	
RoHS compliant	yes yes	
Ambient temperature (operation)	-30+80°C, -22+176°F	-40+70°C, -40+158°F
Protection rating	IP65/67 in screwed condition (according to IP20	
Pollution level	3/2 (according to IEC 60664-1)	-

Cable

Electrical data	
Rated voltage	600 V
Operating voltage	≤ 125 V (peak value, not for high voltage purposes)
Attenuation of shielding	≥ 40 dB
Insulation resistance	≥ 500 MΩ/km
Unbalanced capacitance to ground	1600 pF/km
Mutual capacitance	52 nF/km (1 kHz)
Characteristic impedance (Ethernet)	100 Ω ±15 Ω (100 MHz)
Loop resistance (Ethernet)	≤ 115 Ω/km
Differential impedance (Ethernet)	250 Ω/km
Unbalanced resistance (Ethernet)	2 %
Dielectric strength wire/wire (Ethernet)	1000 V DC/700 V AC
Dielectric strength wire/shield (Ethernet)	1000 V DC/700 V AC
Signal running time (Ethernet)	5.3 ns/m
Electrical parameters (Ethernet)	based on Cat.5
Test voltage	≥ 2000 V



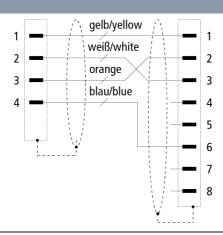
Conductor construction (Ethernet) star quad Conductor construction (Ethernet) 7 x 0.25 mm Cross-section (Ethernet) 1 x 4 x 0.34 mm² (AWG22) Outer cable diameter 6.5 mm ± 0.2 mm (0.2559" ± 0.0079") Min. bending radius, moved 8 x outer cable diameter Min. bending radius, moved in drag-chain 5 x outer cable diameter Min. bending radius, moved in drag-chain 61 kg/km (41 lb/1000 ft) Conductor material (Ethernet) copper, tinned Shielding aluminum-clad foil, braiding of tinned copper wires Optical covering factor of shielding (Ethernet) 2 85 % Use drag chain suitable Max. acceleration 4 m/s² Max. speed 4 m/s Max. travel distance 4.5 m Max. travel distance 4.5 m Max. travel distance 9.375 mm Wall thickness of wire insulation 0.375 mm Jacket color yellow Material jacket PUR (polyurethane) Wire color code yellow, orange, white, blue Wire color code yellow, orange, white, blue Wire color code <t< th=""><th>Mechanical data</th><th></th></t<>	Mechanical data	
Conductor construction (Ethernet) 7 x 0.25 mm Cross-section (Ethernet) 1 x 4 x 0.34 mm² (AWG22) Outer cable diameter 6.5 mm ± 0.2 mm (0.2559° ± 0.0079°) Min. bending radius, moved 8 x outer cable diameter Min. bending radius, moved in drag-chain 15 x outer cable diameter Weight 61 kg/km (41 lb/1000 ft) Conductor material (Ethernet) copper, trinned Shielding aluminum-clad foil, braiding of finned copper wires Opcal covering factor of shielding (Ethernet) 2 85 % Use drag-chain suitable Max. acceleration 4 m/s² Max. speed 4 m/s Max. travel distance 4.5 m Max. number of cycles 3 million Wall thickness of wire insulation (Ethernet) 2 llow Vall thickness of wire insulation 9.375 mm Jacket color yellow Wire color code yellow, orange, white, blue Wire color code yellow, orange, white, blue Wire insulation material PP (Polypropylene) Printing color black Torsion angle in "/m max. ± 30° /m<		
Cross-section (Ethernet) 1 x 4 x 0.34 mm² (AWG22) Outer cable diameter 6.5 mm ± 0.2 mm (0.2559° ± 0.0079°) Min. bending radius, moved 8 x outer cable diameter Min. bending radius, moved in drag-chain 15 x outer cable diameter Min. bending radius, fixed installation 5 x outer cable diameter Weight 61 kg/km (41 lb/1000 ft) Conductor material (Ethernet) copper, tinned Shielding aluminum-clad foil, braiding of tinned copper wires Optical covering factor of shielding (Ethernet) aluminum-clad foil, braiding of tinned copper wires Use drag-chain suitable Max. celeration 4 m/s² Max. speed 4 m/s² Max. travel distance 4.5 m Max. travel distance 3 million Max. travel distance 3 million Max. travel distances of wire insulation (Ethernet) vellow Wall thickness of wire insulation 0.375 mm Wall thickness of wire insulation pvl (polyurethane) Wire color code yellow, orange, white, blue Wire insulation material PP (polypropylene) Every Exploration travellar in the		·
Outer cable diameter 6.5 mm ± 0.2 mm (0.2559" ± 0.0079") Min. bending radius, moved 8 x outer cable diameter Min. bending radius, moved in dragchalin 5 x outer cable diameter Min. bending radius, fixed installation 5 x outer cable diameter Weight 61 kg/km (41 lb/1000 ft) Conductor material (Ethernet) copper, tinned Obtical covering factor of shielding (Ethernet) a luminum-clad foil, braiding of tinned copper wires Use drag-chain suitable Max. sceleration 4 m/s² Max. speed 4 m/s² Max. travel distance 4.5 m Max. number of cycles 3 million Wall thickness of wire insulation (Ethernet) yellow Wall thickness of wire insulation 0,375 mm Wall thickness of wire insulation yellow Material jacket PUR (polyurethane) Wire color code yellow, orange, white, blue Wire insulation material PP (polygropylene) EckHoff 789024 Industrial Ethernet (EtherCAT Trailing Cable * CATSPLUS** *22xWG (SHELDED) (UI) Etition CMX 75°C VERIED (UI) CAT SE PATCH CABLE FRINC **length in meters** Printing color black		
Min. bending radius, moved in drag- chain Min. bending radius, fixed installation 5 x outer cable diameter Weight 61 kg/km (41 lb/1000 ft) Conductor material (Ethernet) copper, tinned Shielding aluminum-clad foil, braiding of tinned copper wires Optical covering factor of shielding Quital covering factor of shielding Amax. acceleration 4 m/s² Max. acceleration 4 m/s² Max. speed 4 m/s Max. travel distance 4.5 m Max. number of cycles 3 million Wall thickness of wire insulation (Ethernet) Jacket color yellow Waterial jacket Wire color code yellow, orange, white, blue Wire insulation material Printing on the jacket / Ether-CAT Trailing Cable * CATSPLUS * 22AWG (SHIELDED) (UL) E119100 CMX 75°C VERIFIED (UL) CAT SE PATCH CABLE FRINC **length in meters* Printing color black Torsion angle in */m Environmental date Operation temperature range, moved Operation temperature range, moved Operation temperature range, fixed installation UV resistance Acid, lye and solvent resistance depends on medium, concentration, temperature and duration LABS-free Wes color temperature and duration LABS-free Ves Operation temperature and duration LABS-free		
Min. bending radius, moved in drag- chain Min. bending radius, fixed installation S x outer cable diameter Weight 61 kg/km (41 lb/1000 ft) Conductor material (Ethernet) Optical covering factor of shielding (Ethernet) Use drag-chain suitable Max. acceleration 4 m/s² Max. speed 4 m/s Max. travel distance 4.5 m Max. travel distance 4.5 m Max. number of cycles 3 million Wall thickness of wire insulation (Ethernet) Wire color code Wire color code Wire insulation material BECKHOFF ZB9024 Industrial Ethernet Printing on the jacket Printing color Operation temperature range, moved 3-0+80°C, -22+176°F Operation temperature range, moved installation UV resistance Acid, lye and solvent resistance depends on medium, concentration, temperature and duration LABS-free Weight Conductor diameter 15 x outer cable diameter 8 x outer cable diameter 9 x outer cable d		
chain S x Outer cable diameter Min. bending radius, fixed installation S x outer cable diameter Weight 61 kg/km (41 lb/1000 ft) Conductor material (Ethernet) copper, tinned Shielding aluminum-clad foil, braiding of tinned copper wires Optical covering factor of shielding (Ethernet) 2 85 % Use drag-chain suitable Max. acceleration 4 m/s² Max. speed 4 m/s Max. travel distance 4.5 m Max. travel distance 4.5 m Max. number of cycles 3 million Wall thickness of wire insulation (Ethernet) Jacket color yellow Material jacket PUR (polyurethane) Wire color code yellow, orange, white, blue Wire insulation material PP (polypropylene) Printing on the jacket ECHOFT Z89024 Industrial Ethernet / Ether CAT Trailing Cable "CATSPLUS" *22AWG (SHELDED) (UL) ET19100 CMX 75°C VERIFIED (UL) CAT SE PATCH CABLE FRNC "length in meters" Printing color black Torsion angle in "/m max ± 30 "/m Environmental data Operation temperature range, fixed installation UV resistance yes Oil resistance according to DIN EN 60811-404 (7x24 h/90 °C) Acid, lye and solvent resistance depends on medium, concentration, temperature and duration LABS-free	Min. bending radius, moved	8 x outer cable diameter
Weight 61 kg/km (41 lb/1000 ft) Conductor material (Ethernet) copper, tinned Shielding aluminum-clad foil, braiding of tinned copper wires Optical covering factor of shielding (Ethernet) ≥ 85 % Use drag-chain suitable Max. acceleration 4 m/s² Max. speed 4 m/s Max. travel distance 4.5 m Max. number of cycles 3 million Wall thickness of wire insulation (Ethernet) 0.375 mm Jacket color yellow Material jacket PUR (polyurethane) Wire color code yellow, orange, white, blue Wire insulation material PP (polypropylene) Printing on the jacket BECKHOFF 289024 Industrial Ethernet Printing color black Printing color black Torsion angle in °/m max. ± 30 °/m Environmental data Printing cable * CATSPLUS * 22AWG (SHIELDED) (UL) E119100 CMX 75°C VERIFIED (UL) CAT SE PATCH CABLE FRNC **length in meters** Operation temperature range, fixed installation 30+80°C, -22+176°F Operation temperature range, fixed installation 40+80°C, -40+176°F UV resistance depends on me		15 x outer cable diameter
Conductor material (Ethernet) copper, tinned Shielding aluminum-clad foil, braiding of tinned copper wires Optical covering factor of shielding (Ethernet) ≥ 85 % Use drag-chain suitable Max. acceleration 4 m/s² Max. speed 4 m/s Max. travel distance 4.5 m Max. number of cycles 3 million Wall thickness of wire insulation (Ethernet) 0.375 mm Jacket color yellow Material jacket PUR (polyurethane) Wire color code yellow, orange, white, blue Wire insulation material PP (polypropylene) Printing on the jacket BECKHOFF ZB9024 Industrial Ethernet / 'EtherCAT Trailing Cable * CATSPLUS * 22AWG (SHIELDED) (UL) E119100 CMX 75°C VERIFIED (UL) CAT 5E PATCH CABLE FRNC **length in meters** Printing color black Torsion angle in "/m max. ± 30 "/m Environmental data	Min. bending radius, fixed installation	5 x outer cable diameter
Shielding aluminum-clad foil, braiding of tinned copper wires Optical covering factor of shielding (Ethernet) Use drag-chain suitable Max. acceleration 4 m/s² Max. speed 4 m/s Max. travel distance 4.5 m Max. number of cycles 3 million Wall thickness of wire insulation (Ethernet) Jacket color yellow Material jacket PUR (polyurethane) Wire color code yellow, orange, white, blue Wire insulation material PP (polypropylene) Printing on the jacket EtherCAT Trailing Cable * CATSPILUS * 22AWG (SHIELDED) (UL) E119100 CMX 75°C VERIFIED (UL) CAT 5E PATCH CABLE FRNC **length in meters** Printing color angle in **/m max. ± 30 **/m Environmental date Operation temperature range, moved 30+80°C, -22+176°F Operation temperature range, fixed installation UV resistance yes Oil resistance according to DIN EN 60811-404 (7x24 h/90 °C) Acid, lye and solvent resistance depends on medium, concentration, temperature and duration	Weight	61 kg/km (41 lb/1000 ft)
Optical covering factor of shielding (Ethernet) ≥ 85 % Use drag-chain suitable Max. acceleration 4 m/s² Max. speed 4 m/s Max. travel distance 4.5 m Max. number of cycles 3 million Wall thickness of wire insulation (Ethernet) 0.375 mm Jacket color yellow Material jacket PUR (polyurethane) Wire color code yellow, orange, white, blue Wire insulation material PP (polypropylene) Printing on the jacket PECKHOFF ZB9024 Industrial Ethernet / EtherCAT Trailing Cable * CATSPLUS * 22AWG (SHIELDED) (UL) E119100 CMX 75°C VERIFIED (UL) CAT 5E PATCH CABLE FRNC ***length in meters** Printing color black Torsion angle in */m max. ± 30 °/m Environmental data Properation temperature range, moved 30+80°C, -22+176°F Operation temperature range, fixed installation 40+80°C, -40+176°F UV resistance yes Oil resistance depends on medium, concentration, temperature and duration LABS-free yes	Conductor material (Ethernet)	copper, tinned
(Ethernet) 2 85 % Use drag-chain suitable Max. acceleration 4 m/s² Max. speed 4 m/s Max. travel distance 4.5 m Max. number of cycles 3 million Wall thickness of wire insulation (Ethernet) 0.375 mm Jacket color yellow Material jacket PUR (polyurethane) Wire color code yellow, orange, white, blue Wire insulation material PP (polypropylene) Printing on the jacket BECKHOFF z80924 Industrial Ethernet / VERIFIED (UL) CAT 5E PATCH CABLE FRNC "length in meters" Printing color black Torsion angle in "/m max. ± 30 "/m Environmental data Torsion angle in "/m Operation temperature range, moved -30+80°C, -22+176°F Operation temperature range, fixed installation 40+80°C, -40+176°F UV resistance yes Oil resistance according to DIN EN 60811-404 (7x24 h/90 °C) Acid, lye and solvent resistance depends on medium, concentration, temperature and duration LABS-free yes	Shielding	aluminum-clad foil, braiding of tinned copper wires
Max. acceleration 4 m/s² Max. travel distance 4.5 m Max. number of cycles 3 million Wall thickness of wire insulation (Ethernet) Jacket color yellow Material jacket PUR (polyurethane) Wire color code yellow, orange, white, blue Wire insulation material PP (polypropylene) BECKHOFF ZB9024 Industrial Ethernet / EtherCAT Trailing Cable * CATSPLUS * 22AWG (SHIELDED) (UL) E119100 CMX 75°C VERIFIED (UL) CAT 5E PATCH CABLE FRNC *"length in meters" Printing color black Torsion angle in °/m max. ± 30 °/m Environmental data Operation temperature range, moved -30+80°C, -22+176°F Operation temperature range, fixed installation UV resistance yes Oil resistance according to DIN EN 60811-404 (7x24 h/90 °C) Acid, lye and solvent resistance depends on medium, concentration, temperature and duration LABS-free view of wire installation installation yes		≥ 85 %
Max. travel distance 4.5 m Max. number of cycles 3 million Wall thickness of wire insulation (Ethernet) 2,375 mm Jacket color yellow Material jacket PUR (polyurethane) Wire color code yellow, orange, white, blue Wire insulation material PP (polypropylene) Printing on the jacket / EtherCAT Trailing Cable * CATSPLUS * 22AWG (SHIELDED) (UL) E119100 CMX 75°C VERIFIED (UL) CAT 5E PATCH CABLE FRNC *"length in meters" Printing color black Torsion angle in °/m max. ± 30 °/m Environmental data Operation temperature range, moved -30+80°C, -22+176°F Operation temperature range, fixed installation upperature range, fixed consistence yes Oil resistance according to DIN EN 60811-404 (7x24 h/90 °C) Acid, lye and solvent resistance depends on medium, concentration, temperature and duration LABS-free yes	Use	drag-chain suitable
Max. travel distance 4.5 m Max. number of cycles 3 million Wall thickness of wire insulation (Ethernet) 0.375 mm Jacket color yellow Material jacket PUR (polyurethane) Wire color code yellow, orange, white, blue Wire insulation material PP (polypropylene) Printing on the jacket /EtherCAT Trailing Cable * CATSPLUS * 22AWG (SHIELDED) (UL) E119100 CMX 75°C VERIFIED (UL) CAT 5E PATCH CABLE FRNC *"length in meters" Printing color black Torsion angle in °/m max. ± 30 °/m Environmental data *** Operation temperature range, moved installation 30+80°C, -22+176°F Operation temperature range, fixed installation 40+80°C, -40+176°F UV resistance yes Oil resistance according to DIN EN 60811-404 (7x24 h/90 °C) Acid, lye and solvent resistance depends on medium, concentration, temperature and duration LABS-free yes	Max. acceleration	4 m/s ²
Max. number of cycles 3 million Wall thickness of wire insulation (Ethernet) 0.375 mm Jacket color yellow Material jacket PUR (polyurethane) Wire color code yellow, orange, white, blue Wire insulation material PP (polypropylene) Printing on the jacket BECKHOFF ZB9024 Industrial Ethernet / EtherCAT Trailing Cable * CATSPLUS * 22AWG (SHIELDED) (UL) ET19100 CMX 75°C VERIFIED (UL) CAT 5E PATCH CABLE FRNC *"length in meters" Printing color black Torsion angle in °/m max. ± 30 °/m Environmental date	Max. speed	4 m/s
Wall thickness of wire insulation (Ethernet) Jacket color yellow Material jacket Wire color code Wire insulation material PP (polypropylene) BECKHOFF ZB9024 Industrial Ethernet / EtherCAT Trailing Cable * CATSPLUS * 22AWG (SHIELDED) (UL) E119100 CMX 75°C VERIFIED (UL) CAT 5E PATCH CABLE FRNC *"length in meters" Printing color Printing color Buck Torsion angle in °/m Environmental data Operation temperature range, moved Operation temperature range, fixed installation UV resistance Jess Guine temperature according to DIN EN 60811-404 (7x24 h/90 °C) Acid, lye and solvent resistance depends on medium, concentration, temperature and duration LABS-free yes	Max. travel distance	4.5 m
(Ethernet) 0.3/5 mm Jacket color yellow Material jacket PUR (polyurethane) Wire color code yellow, orange, white, blue Wire insulation material PP (polypropylene) BECKHOFF ZB9024 Industrial Ethernet / Ether CAT Trailing Cable * CATSPLUS * 22AWG (SHIELDED) (UL) E119100 CMX 75°C VERIFIED (UL) CAT 5E PATCH CABLE FRNC *"length in meters" Printing color black Torsion angle in °/m max. ± 30 °/m Environmental data Operation temperature range, moved -30+80°C, -22+176°F Operation temperature range, fixed installation -40+80°C, -40+176°F UV resistance yes Oil resistance according to DIN EN 60811-404 (7x24 h/90 °C) Acid, lye and solvent resistance depends on medium, concentration, temperature and duration LABS-free USABS-free	Max. number of cycles	3 million
Material jacket PUR (polyurethane) Wire color code yellow, orange, white, blue Wire insulation material PP (polypropylene) BECKHOFF ZB9024 Industrial Ethernet Printing on the jacket EtherCAT Trailing Cable * CATSPLUS * 22AWG (SHIELDED) (UL) E119100 CMX 75°C VERIFIED (UL) CAT 5E PATCH CABLE FRNC *"length in meters" Printing color black Torsion angle in °/m max. ± 30 °/m Environmental data Operation temperature range, moved -30+80°C, -22+176°F Operation temperature range, fixed installation yes UV resistance yes Oil resistance according to DIN EN 60811-404 (7x24 h/90 °C) Acid, lye and solvent resistance depends on medium, concentration, temperature and duration LABS-free yes		0.375 mm
Wire color codeyellow, orange, white, blueWire insulation materialPP (polypropylene)Printing on the jacketBECKHOFF ZB9024 Industrial Ethernet / EtherCAT Trailing Cable * CATSPLUS * 22AWG (SHIELDED) (UL) E119100 CMX 75°C VERIFIED (UL) CAT 5E PATCH CABLE FRNC *"length in meters"Printing colorblackTorsion angle in °/mmax. ± 30 °/mEnvironmental data***Departion temperature range, moved** -30+80°C, -22+176°FOperation temperature range, fixed installation-40+80°C, -40+176°FUV resistanceyesOil resistanceaccording to DIN EN 60811-404 (7x24 h/90 °C)Acid, lye and solvent resistancedepends on medium, concentration, temperature and durationLABS-freeyes	Jacket color	yellow
Wire insulation material PP (polypropylene) BECKHOFF ZB9024 Industrial Ethernet / EtherCAT Trailing Cable * CAT5PLUS * 22AWG (SHIELDED) (UL) E119100 CMX 75°C VERIFIED (UL) CAT 5E PATCH CABLE FRNC *"length in meters" Printing color black Torsion angle in °/m Environmental data Operation temperature range, moved Operation temperature range, fixed installation UV resistance Oil resistance according to DIN EN 60811-404 (7x24 h/90 °C) Acid, lye and solvent resistance LABS-free DECKHOFF ZB9024 Industrial Ethernet / EtherCAT Trailing Cable * CAT5PLUS * 22AWG (SHIELDED) (UL) E119100 CMX 75°C VERIFIED (UL) CAT 5E PATCH CABLE FRNC *"length in meters" Printing cable * CAT5PLUS * 22AWG (SHIELDED) (UL) E119100 CMX 75°C VERIFIED (UL) CAT 5E PATCH CABLE FRNC *"length in meters" Printing on the jacket / EtherCAT Trailing Cable * CAT5PLUS * 22AWG (SHIELDED) (UL) E119100 CMX 75°C VERIFIED (UL) CAT 5E PATCH CABLE FRNC *"length in meters" Printing color max. ± 30 °/m Environmental data Operation temperature range, moved -30+80°C, -22+176°F UV resistance yes UV resistance according to DIN EN 60811-404 (7x24 h/90 °C) Acid, lye and solvent resistance depends on medium, concentration, temperature and duration LABS-free	Material jacket	PUR (polyurethane)
Printing on the jacket BECKHOFF ZB9024 Industrial Ethernet / EtherCAT Trailing Cable * CAT5PLUS * 22AWG (SHIELDED) (UL) E119100 CMX 75°C VERIFIED (UL) CAT 5E PATCH CABLE FRNC *"length in meters" Printing color black Torsion angle in °/m max. ± 30 °/m Environmental data Operation temperature range, moved Operation temperature range, fixed installation UV resistance Oil resistance oil resistance according to DIN EN 60811-404 (7x24 h/90 °C) Acid, lye and solvent resistance depends on medium, concentration, temperature and duration LABS-free BECKHOFF ZB9024 Industrial Ethernet / EtherCAT Trailing Cable * CAT5PLUS * 22AWG (SHIELDED) (UL) E119100 CMX 75°C VERIFIED (UL) CAT 5E PATCH CABLE FRNC *"length in meters" black max. ± 30 °/m max. ± 30 °/m 1-40+80°C, -22+176°F Operation temperature range, fixed installation UV resistance yes oil resistance depends on medium, concentration, temperature and duration LABS-free	Wire color code	yellow, orange, white, blue
Printing on the jacket/ EtherCAT Trailing Cable * CATSPLUS * 22AWG (SHIELDED) (UL) E119100 CMX 75°C VERIFIED (UL) CAT 5E PATCH CABLE FRNC *"length in meters"Printing colorblackTorsion angle in °/mmax. ± 30 °/mEnvironmental data	Wire insulation material	PP (polypropylene)
Torsion angle in °/m max. ± 30 °/m Environmental data Operation temperature range, moved -30+80°C, -22+176°F Operation temperature range, fixed installation UV resistance yes Oil resistance according to DIN EN 60811-404 (7x24 h/90 °C) Acid, lye and solvent resistance depends on medium, concentration, temperature and duration LABS-free yes	Printing on the jacket	/ EtherCAT Trailing Cable * CAT5PLUS * 22AWG (SHIELDED) (UL) E119100 CMX 75°C
Environmental data Operation temperature range, moved -30+80°C, -22+176°F Operation temperature range, fixed installation UV resistance yes Oil resistance according to DIN EN 60811-404 (7x24 h/90 °C) Acid, lye and solvent resistance depends on medium, concentration, temperature and duration LABS-free yes	Printing color	black
Operation temperature range, moved Operation temperature range, fixed installation -40+80°C, -40+176°F UV resistance Oil resistance according to DIN EN 60811-404 (7x24 h/90 °C) Acid, lye and solvent resistance depends on medium, concentration, temperature and duration LABS-free yes	Torsion angle in °/m	max. ± 30 °/m
Operation temperature range, fixed installation UV resistance Oil resistance Acid, lye and solvent resistance LABS-free Acid. Service according to DIN EN 60811-404 (7x24 h/90 °C) depends on medium, concentration, temperature and duration yes	Environmental data	
installation UV resistance Oil resistance according to DIN EN 60811-404 (7x24 h/90 °C) Acid, lye and solvent resistance depends on medium, concentration, temperature and duration LABS-free yes	Operation temperature range, moved	-30+80°C, -22+176°F
Oil resistance according to DIN EN 60811-404 (7x24 h/90 °C) Acid, lye and solvent resistance depends on medium, concentration, temperature and duration LABS-free yes		-40+80°C, -40+176°F
Acid, lye and solvent resistance depends on medium, concentration, temperature and duration LABS-free yes	UV resistance	yes
LABS-free yes	Oil resistance	according to DIN EN 60811-404 (7x24 h/90 °C)
,	Acid, lye and solvent resistance	depends on medium, concentration, temperature and duration
Flame-retardant VW-1 Flame Test UL 1581 section 1080 and IEC 60332-1-2	LABS-free	yes
	Flame-retardant	VW-1 Flame Test UL 1581 section 1080 and IEC 60332-1-2



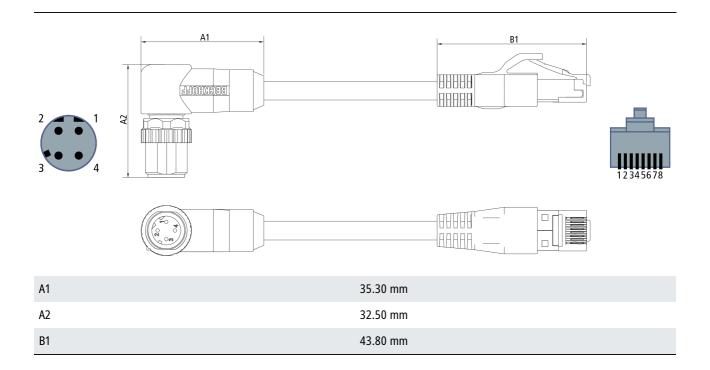
CFC-free	yes
Halogen-free	yes
Silicone-free	yes
RoHS compliant	yes
UL	yes, UL E-file number: E119100
Approvals	UL, CMX according to UL 444

Attenuation								
Max. insertion loss								
Frequency [MHz]	1	4	10	16	20	31.25	62.5	100
[db/100 m]	2.1	4.0	6.3	8.0	9.0	11.4	16.5	21.3
[db/100 ft]	0.6	1.2	1.9	2.4	2.7	3.5	5	6.5
Min. near-end crosstalk attenuation								
Frequency [MHz]	1	4	10	16	20	31.25	62.5	100
[db/100 m]	80	76.0	70.0	65.0	63.0	60.0	55.0	50.0
[db/100 ft]	24.4	23.2	21.3	19.8	19.2	18.3	16.8	15.2

Contact assembly



Dimensions



Notes

- Depending on the cable length (L), the following length tolerances apply: 0 m...<0.2 m: \pm 10 mm | 0.2...4.0 m: \pm 40 mm | \geq 4.0 m: \pm 1%
- Illustrations similar
- Further cable length on request.

CE, UL	
CE	yes

Ordering information	Length
ZK1093-6391-0030	3.00 m

Accessories	
ZB8801-0000	torque wrench for hexagonal plugs, adjustable
ZB8801-0002	torque cable key, M12/wrench size 13, for ZB8801-0000
ZK1096-9696-0000	RJ45, socket, straight, female, 8-pin – RJ45, socket, straight, female, 8-pin



Products marked with a crossed-out wheeled bin shall not be discarded with the normal waste stream. The device is considered as waste electrical and electronic equipment. The national regulations for the disposal of waste electrical and electronic equipment must be observed.

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