

M12 male 0°/ M12 female recept. A-cod. shielded

PVC AWG24+22 shielded gn UL/CSA+drag ch. 5m

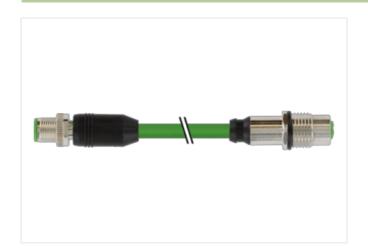
Ethernet CAT5 Male straight - flange female straight M12 - M12, 8-pole shielded Further cable lengths on request.

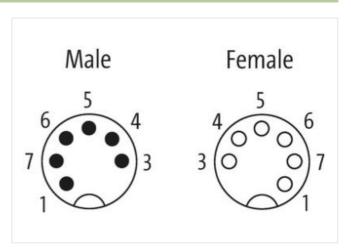
Plastic housings with good resistance against chemicals and oils.

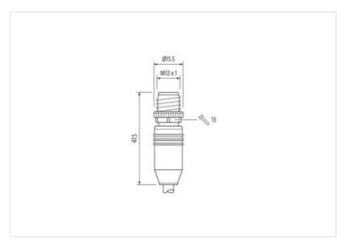
The resistance to aggressive media should be individually tested for your application. Further details on request.

Link to Product

Illustration







Product may differ from Image



Cable length

Side 1

Tightening torque 0,6 Nm

5 m



stay connected

Family construction form	M12
Thread	M12 x 1
Coding	A
Width across flats	SW13
Commercial data	
ECLASS-6.0	27061801
ECLASS-6.1	27279220
ECLASS-7.0	27440103
ECLASS-8.0	27440103
ECLASS-9.0	27440103
ECLASS-10.1	27440103
ECLASS-11.1	27440103
ECLASS-12.0	27440103
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879618243
Packaging unit	1
Electrical data Supply	
Operating voltage AC max.	30 V
Operating voltage DC max.	30 V
Current operating per contact max.	2 A
Industrial communication	
Transfer parameters	CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)
Data transmission rate max.	100 MBit/s
Industrial communication Ethernet function	ionality
duplex	Full duplex
Device protection Electrical	, an appear
	ID07
Degree of protection (EN IEC 60529) Protection NEMA	1P67 3, 4, 6P
Protection NEIVIA	5, 4, OF
Additional condition protection degree	inported coround
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Pollution Degree Rated surge voltage	
Pollution Degree Rated surge voltage Material group (IEC 60664-1)	3
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data	3 0,8 kV I
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking	3 0,8 kV I Nickeled
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Material housing	3 0,8 kV I Nickeled PUR
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Material housing Locking material	3 0,8 kV I Nickeled
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Material housing	3 0,8 kV I Nickeled PUR Zinc die-casting
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Material housing Locking material	3 0,8 kV I Nickeled PUR
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Material housing Locking material Mechanical data Mounting data	3 0,8 kV I Nickeled PUR Zinc die-casting
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Material housing Locking material Mechanical data Mounting data Mounting method	3 0,8 kV I Nickeled PUR Zinc die-casting
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Material housing Locking material Mechanical data Mounting data Mounting method Environmental characteristics Climatic	3 0,8 kV I Nickeled PUR Zinc die-casting inserted, screwed, Shaking protection
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Material housing Locking material Mechanical data Mounting data Mounting method Environmental characteristics Climatic Operating temperature min.	3 0,8 kV I Nickeled PUR Zinc die-casting inserted, screwed, Shaking protection -25 °C
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Material housing Locking material Mechanical data Mounting data Mounting method Environmental characteristics Climatic Operating temperature min. Operating temperature max.	3 0,8 kV I Nickeled PUR Zinc die-casting inserted, screwed, Shaking protection -25 °C 85 °C
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Material housing Locking material Mechanical data Mounting data Mounting method Environmental characteristics Climatic Operating temperature min. Operating temperature max. Additional condition temperature range Important installation notes	3 0,8 kV I Nickeled PUR Zinc die-casting inserted, screwed, Shaking protection -25 °C 85 °C depending on cable quality
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Material housing Locking material Mechanical data Mounting data Mounting method Environmental characteristics Climatic Operating temperature min. Operating temperature max. Additional condition temperature range	3 0,8 kV I Nickeled PUR Zinc die-casting inserted, screwed, Shaking protection -25 °C 85 °C
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Material housing Locking material Mechanical data Mounting data Mounting method Environmental characteristics Climatic Operating temperature min. Operating temperature max. Additional condition temperature range Important installation notes Note on strain relief Note on bending radius	0,8 kV I Nickeled PUR Zinc die-casting inserted, screwed, Shaking protection -25 °C 85 °C depending on cable quality Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Material housing Locking material Mechanical data Mounting data Mounting method Environmental characteristics Climatic Operating temperature min. Operating temperature max. Additional condition temperature range Important installation notes Note on strain relief	0,8 kV I Nickeled PUR Zinc die-casting inserted, screwed, Shaking protection -25 °C 85 °C depending on cable quality Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be



Case is entitlication 881 Inciscro Table 1-ybrid. Dats. Power Jacket Color grown Type of Certificate cURson Annount stranding 3 Stranding (yoe) 2 wine with Filler twisted Cable shielding (yyee) oopen braid, finned Cable shielding (yyee) 65 % Cable shielding (yee) 65 % Filer yee vive surrangement (green, yellow), (prix, blue), (red. black) Marterial packet (green, yellow), (prix, blue), (red. black) Marterial packet 6.95 mm Clored-camenter (packet) 6.95 mm Clouter damenter (packet) 7.0	wire arrangement	(green, yellow), (pink, blue), (red, black)
Jacket Color	Cable identification	881
Type of Certificate cURus	Function cable	Hybrid, Data, Power
Amount stranding 3 Stranding 2 wires with Filter twisted Cable shinking (type) opport rotal, timed Cable shinking (type) opport rotal, timed Cable shinking (type) 65 % Filter yes wire arrangement (green, yellow), (pink, blue), (red, black) Multimial jackott PVC Freedom from ingredients (jacket) 6.95 mm Course-diameter (jacket) 6.95 mm Tolerance outer diameter (slacket) 6.95 mm Outer-diameter (jacket) 4.5 % Material wire insulation PE Amount wires 4 Amount wires 4.9 mm Cuter diameter (charace core insulation ingredient freeness wire insulation 4.5 % Ingredient freeness wire insulation 2.4 AWG Conductor crossacction (wire) 7 Dameter of single wires 2.4 AWG Conductor vive insulation (Power) 1.03 mm Tolerance outer diameter wire insulation (Power) 1.03 mm Tolerance outer discrete wire insulation (Power) 1.63 mm Tolerance outer discrete wire insulat	Jacket Color	green
Stranding (type 2) 2 wires with Filter twisted Cabbe shelding (type) copper brid, finted Cabbe shelding (coverage) 85 % Filter yes wire arrangement (green, yellow), (pink, blue), (red, black) Material jackot PVC Frecodom from ingrodients (jackot) lead free, CFC-free, silicone-free Outer-diameter (jackod) 0,95 mm Toterance outer diameter (sheldt) 4 Material wire insulation PE Amount wires 4 Cleer diameter insulation 1,13 mm Outer diameter wire insulation 1 of % Impedient feeras wire insulation 1 of % Impedient feeras wire insulation 1 of % Diameter of single wires 24 AWG Conductor crossection (wire) 24 AWG Material conductor wire Siranded copper wire, bare Electrical function wire Date Material conductor wire insulation (Power) 2 Telegrander wire insulation (Power) 2 Amount sirrack wire (Power) 2 Amount wires (Power) 2	Type of Certificate	cURus
Skranding (type 2) 3 Stranded joints with Filter twisted Cable shiekding (type) copper braid, fromed Cable shiekding (coverage) 85 % Filter yes we arrangement (green, yellow), (pink, blue), (red. black) Material jacket PVC Freedom from Ingredients (gacket) 6,95 mm Ober-diameter (gacket) 6,95 mm Tolerance outer diameter (shealth) ± 5 % Material wire insulation FE Amount wires 4 Older diameter insulation 1,03 mm Older diameter insulation 1,5 % Ingredient freeness wire insulation 1,03 mm Outer diameter insulation 1,03 mm Ingredient freeness wire insulation 2,4 M/G Conductor crossosatelon (wire) 24 AWG Conductor crossosatelon (wire) 24 AWG Material wire insulation (Power) 1,03 mm Tolerance outer diameter wire insulation (Power) 1,03 mm Tolerance outer diameter wire insulation (Power) 2,5 % Ingredient freeness wire insulation (Power) 2,2 M/G Ingredi	Amount stranding	3
Cable shelding (type) coppor braid, tened Cable shelding (coverage) 85 % Filter ys wire arrangement (green, yellow), (pink, blue), (red, black) Material jacket PVC Freedom from Ingredients (jacket) laad rec. CFC free, silicone-free Outer-diameter (facket) 5,55 mm Tolerance outer diameter (shelath) 2 5 % Material were insulation PE Armount wires 4 Cluer diameter insulation 1,13 mm Outer diameter insulation 1,5 mm Ingredient freeness wire insulation ± 5 % Martinal formatic wire) 7 Damater of single wires 24 AWG Material conductor wire Stranded copper wire, barre Electrical function wire Data Material conductor wire insulation (Power) PE Outer diameter wire insulation (Power) 5 % Ingredient freeness wire insulation (Power) 1,03 mm Infectionary (Power) 2 Outer diameter wire insulation (Power) 1,03 mm Infectional freeness wire insulation (Power) <td>Stranding</td> <td>2 wires with Filler twisted</td>	Stranding	2 wires with Filler twisted
Cable shelding (coverage) 85 % Filter yes Filter yes wine arrangement (groun, yellow), (pink, blue), (red, black) Material placket PVC Freedonn from ingredients (lacket) 6,95 mm Outer-diameter (lacket) 6,95 mm Tolerance outer diameter (shealt) 1 5 % Annount wiss 4 Outer diameter insulation 1,03 mm Under diameter insulation 2.5 % Annount strands (refer) 7 Diameter of single wires 2.4 AWG Conductor crosssection (wire) 2.4 AWG Conductor crosssection (wire) 2.4 AWG Material wire insulation (Power) PE Outer diameter wire insulation (Power) PS Outer diameter wire insulation (Power) PS Outer d	Stranding (type 2)	3 Stranded joints with Filler twisted
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wire arrangement (green, yellow), (pink, blue), (red, black) Material jacket PVC Freedom from ingredients (jacket) lead-free, CFC-free, silcone-free Outer-diameter jacket) 6,85 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PE Amount wires 4 Outer diameter tolerance core insulation ± 5 % Lorder diameter tolerance core insulation ± 5 % Ingredient freeness wire insulation ± 6 % Ingredient freeness wire insulation ± 2 % Ingredient freeness wire insulation (wire) ± 4 AWG Conductor crosssection (wire) ± 4 AWG Indicated wire insulation (Power) ± 4 AWG Material vine insulation (Power) ± 5 % Electrical function wire Data Material vine insulation (Power) ± 5 % Ingredient freeness wire insulation (Power) ± 5 % Ingredient freeness wire insulation (Power) ± 2 AWG Wire conductor cross section (Power) ± 2 AWG Wire conductor cross section (Power) ± 2 AWG Wire conductor cross section (Power)	Cable shielding (coverage)	85 %
Material jacket PVC Freedom from ingredents (jacket) 6.95 mm Outer-diameter (jacket) 5.95 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation pE Amount wires 4 Outer diameter insulation 1,03 mm Outer diameter tolerance core insulation 1,03 mm Ingredient freeness wire insulation lead-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 7 Diameter of single wires 24 AWG Conductor crosssection (wire) 24 AWG Conductor wire Stranded copper wire, bare Electrical function wire Data Material conductor wire Stranded copper wire, bare Electrical function wire Data Material wire insulation (Power) PE Outer diameter wire insulation (Power) 1,03 mm Tolerance user diameter wire insulation (Power) 1,5 % Ingredient freeness wire insulation (Power) 22 AWG Wire conductor cross section (Power) 22 AWG Wire conductor wires (Power) 22 AWG <t< td=""><td>Filler</td><td>yes</td></t<>	Filler	yes
Freedom from ingredients (jacket) lead-free, CFC-free, silicone-free Outer-diameter (jacket) ± 5% Material wire insulation PE Amount wires 4 Outer diameter insulation 1,03 mm Outer diameter bierance core insulation ± 5% Ingredient freeness wire insulation ± 5% Ingredient freeness wire insulation ± 4 MG Conductor crosssection (virie) 24 AWG Conductor crosssection (virie) 24 AWG Material conclutor wire Stranded copper wire, bare Electrical function wire Data Material wire insulation (Power) 1,03 mm Tolerance outer diameter wire insulation ± 5% Ingredient freeness wire insulation (Power) 1,03 mm Tolerance outer diameter wire insulation (Power) ± 5% Ingredient freeness wire insulation (Power) 2 Amount wires (Power) 2 Vifere conductor cross section (Power) 2 Material conductor wire (Power) 22 AWG Mireconductor wire (Power) 20 MG Material function wire 0 Data	wire arrangement	(green, yellow), (pink, blue), (red, black)
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Tolerance outer diameter (sheath)	Freedom from ingredients (jacket)	lead-free, CFC-free, silicone-free
Material wire insulation PE Amount wires 4 Outer diameter insulation ± 5 % Outer diameter tolerance core insulation ± 5 % Ingredient freeness wire insulation lead-free, CFC-free, halogen-free, silicone-free Mount stands (wire) 7 Diameter of single wires 24 AWG Conductor cross-section (wire) 24 AWG Material wire insulation (Power) Data Material wire insulation (Power) PE Outer diameter wire insulation (Power) 1,03 mm Tolerance outer diameter wire insulation (Power) 1,03 mm Tolerance outer diameter wire insulation (Power) 25 % Ingredient freeness wire insulation (Power) 2 Amount wires (Power) 2 Amount wires (Power) 2 Diameter of single wires (Power) 22 AWG Wire conductor cross section (Power) 22 AWG Material conductor wire (Power) 20 AWG Material conductor wire (Power) 20 AWG Electrical resistance line constant wire 90 Akm @ 20 °C Electrical resistance coaling wire (Power) 0.5 kW	Outer-diameter (jacket)	6,95 mm
Amount wires 4 Outer diameter insulation 1,03 mm Outer diameter insulation ± 5 % Ingredient freeness wire insulation lead-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 7 Diameter of single wires 24 AWG Conductor crosssection (wire) 24 AWG Material conductor wire Stranded copper wire, bare Electrical function wire Data Material wire insulation (Power) PE Outer diameter wire insulation (Power) 1,03 mm Tolerance outer diameter wire insulation (Power) 1,03 mm Tolerance outer diameter wire insulation (Power) ±5 % Ingredient freeness wire insulation (Power) ±5 % Ingredient freeness wire insulation (Power) 2 Amount wires (Power) 7 Diameter of single wires (Power) 7 Diameter of single wires (Power) 22 AWG Wire conductor cross section (Power) 22 AWG Wire conductor vive (Power) 22 AWG Nominal voltage AC max. 30 V Electrical resistance line constant wire 90 Ω/km @ 20 °C	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation 1,03 mm Outer diameter tolerance core insulation ingredient freeness wire insulation lead-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 7 Diameter of single wires 24 AWG Conductor crosssection (wire) 24 AWG Material uncition wire Stranded copper wire, bare Electrical function wire Data Material wire insulation (Power) PE Coulder diameter wire insulation (Power) 1.03 mm Tolerance outer diameter wire insulation (Power) 1.5 % Ingredient freeness wire insulation (Power) 1.6 % Ingredient freeness wire insulation (Power) 2 AWG Amount strands wire (Power) 2 AWG Wire conductor cross section (Power) 22 AWG Material conductor wire (Power) 22 AWG Material function wire Data Characteristic impedance 100 Ω ± 15 % @ 1 MHz Electrical function wire Data Characteristic impedance 100 Ω ± 15 % @ 1 MHz Electrical resistance line constant wire 90 Km @ 20 °C Electrical resistance line constant wire 90 Km @ 20 °C </td <td>Material wire insulation</td> <td>PE</td>	Material wire insulation	PE
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Amount strands (wire) 7 Diameter of single wires 24 AWG Conductor crosssection (wire) 24 AWG Material conductor wire Stranded copper wire, bare Electrical function wire Data Material wire insulation (Power) PE Outer diameter wire insulation (Power) 1,03 mm Tolerance outer diameter wire insulation (Power) 2,00 mm Tolerance of single wires (Power) 7 Diameter of single wires (Power) 7 Diameter of single wires (Power) 2,2 AWG Material conductor wire (Power) 2,3 Mm Tolerance (Power) 2,4 Mm Tolerance (Power) 2,4 Mm Tolerance (Power) 2,4 Mm Tolerance (Power) 3,5 Mm @ 20 °C Electrical resistance coating wire (Power) 5,5 Mm @ 20 °C Electrical resistance outing wire (Power) 5,5 Mm @ 20 °C Electrical resistance (Power) 5,5 Mm @ 20 °C AC withstand voltage (wire - shield) 0,5 kV @ 60 s Electric capacitance (Power) 5,5 Mm @ 20 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 0 °C Operating temperature min. (dynamic) 60 °C Filame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 Chemical resistance Conductor or a first own of the produce of	Outer diameter tolerance core insulation	±5%
Diameter of single wires 24 AWG Conductor crosssection (wire) 24 AWG Material conductor wire Stranded copper wire, bare Electrical function wire Data Material wire insulation (Power) PE Outer diameter wire insulation (Power) 1,03 mm Tolerance outer diameter wire insulation (Power) ±5 % Ingredient freeness wire insulation (Power) lead-free, CFC-free, halogen-free Amount wires (Power) 2 Amount strands wire (Power) 7 Diameter of single wires (Power) 22 AWG Wire conductor cross section (Power) 22 AWG Material conductor wire (Power) copper stranded wire, tinned Nominal voltage AC max. 30 V Electrical function wire Data Characteristic impedance 100 Ω ± 15 % @ 1 MHz Electrical resistance line constant wire 90 Ωkm @ 20 °C Electrical resistance locating wire (Power) 55 Ωkm @ 20 °C AC withstand voltage (wire - wire) 0.5 kV @ 60 s Electric capacitance 50000 pF:km Power frequency withstand voltage (wire - wire) 0.5 kV @ 60 s	Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire) 24 AWG Material conductor wire Stranded copper wire, bare Electrical function wire Data Material wire insulation (Power) PE Outer diameter wire insulation (Power) 1,03 mm Tolarance outer diameter wire insulation (Power) 1,5 % Ingredient freeness wire insulation (Power) lead-free, CFC-free, halogen-free Amount wires (Power) 2 Amount strands wire (Power) 7 Diameter of single wires (Power) 22 AWG Wire conductor vire (Power) 22 AWG Material conductor wire (Power) 22 AWG Material conductor wire (Power) 20 YC Electrical function wire Data Characteristic impedance 100 Ω± 15 % @ 1 MHz Electrical resistance line constant wire 90 Ω/km @ 20 °C Electrical resistance line constant wire 90 Ω/km @ 20 °C AC withstand voltage (wire - wire) 0,5 kV @ 60 s Electric capacitance 5000 pF/km Power frequency withstand voltage (wire - shield) 0,5 kV @ 60 s Isolation resistance 1000 MΩ × km M	Amount strands (wire)	7
Material conductor wire Stranded copper wire, bare Electrical function wire Data Material wire insulation (Power) PE Outer diameter wire insulation (Power) 1,03 mm Tolerance outer diameter wire insulation (Power) ±5 % Ingredient freeness wire insulation (Power) 2 Amount wires (Power) 2 Amount strands wire (Power) 7 Diameter of single wires (Power) 22 AWG Wire conductor cross section (Power) 22 AWG Material conductor wire (Power) copper stranded wire, tinned Nominal voltage AC max. 30 V Electrical function wire Data Characteristic impedance 100 Ω ± 15 % @ 1 MHz Electrical resistance line constant wire 90 Ωkm @ 20 °C Electrical resistance line constant wire 90 Ωkm @ 20 °C AC withstand voltage (wire - wire) 0.5 kV @ 60 s Electric capacitance 50000 pF/km Power frequency withstand voltage (wire - shield) 0.5 kV @ 60 s AC withstand voltage (wire - shield) 0.5 kV @ 60 s AC withstand voltage (wire - shield) 0.5 kV @ 60 s	Diameter of single wires	24 AWG
Electrical function wire Data Material wire insulation (Power) PE Outer diameter wire insulation (Power) 1,03 mm Tolerance outer diameter wire insulation (Power) ±5 % Ingredient freeness wire insulation (Power) 2 Amount wires (Power) 2 Amount wires (Power) 7 Diameter of single wires (Power) 22 AWG Wire conductor cross section (Power) 22 AWG Material conductor wire (Power) 22 AWG Material conductor wire (Power) 20 Copper stranded wire, tinned Nominal voltage AC max. 30 V Electrical function wire Data Characteristic impedance 100 Ω± 15 % @ 1 MHz Electrical resistance line constant wire 90 Ω/km @ 20 °C Electrical resistance coating wire (Power) 55 Ω/km @ 20 °C AC withstand voltage (wire - wire) 0,5 kV @ 60 s Electrical coperating temperature (static) -20 °C AC withstand voltage (wire - shield) 0,5 kV @ 60 s Isolation resistance 1000 MC × km Min. operating temperature (fixed) 80 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 0 °C Operating temperature max. (dynamic) 60 °C Flame resistance Good, application-related testing	Conductor crosssection (wire)	24 AWG
Material wire insulation (Power) PE Outer diameter wire insulation (Power) 1,03 mm Tolerance outer diameter wire insulation (Power) ±5 % Ingredient freeness wire insulation (Power) bead-free, CFC-free, halogen-free Amount wires (Power) 2 Amount strands wire (Power) 7 Diameter of single wires (Power) 22 AWG Wire conductor cross section (Power) 22 AWG Material conductor wire (Power) copper stranded wire, tinned Nominal voltage AC max. 30 V Electrical function wire Data Characteristic impedance 100 Ω ± 15 % @ 1 MHz Electrical resistance line constant wire 90 Ω/km @ 20 °C Electrical resistance coating wire (Power) 55 Ω/km @ 20 °C AC withstand voltage (wire - wire) 0.5 kV @ 60 s Electrical capacitance 50000 pF/km Power frequency withstand voltage (wire - wire) 0.5 kV @ 60 s Electrical patient voltage (wire - shield) 0.5 kV @ 60 s Isolation resistance 1000 MC x km Min. operating temperature (static) -20 °C Max. operating temperature (fixed)	Material conductor wire	Stranded copper wire, bare
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(Power) ±5 % Ingredient freeness wire insulation (Power) lead-free, CFC-free, halogen-free Amount wires (Power) 2 Amount strands wire (Power) 7 Diameter of single wires (Power) 22 AWG Wire conductor vire (Power) copper stranded wire, tinned Nominal voltage AC max. 30 V Electrical function wire Data Characteristic impedance 10 Ω ± 15 % @ 1 MHz Electrical resistance line constant wire 90 Ω/km @ 20 °C Electrical resistance line constant wire (Power) 55 Ω/km @ 20 °C AC withstand voltage (wire - wire) 0,5 kV @ 60 s Electric capacitance 50000 pF/km Power frequency withstand voltage (wire - shield) 0,5 kV @ 60 s Isolation resistance 1000 MΩ × km Min. operating temperature (static) -20 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 0 °C Operating temperature max. (dynamic) 60 °C Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing		1,03 mm
Amount wires (Power) 2 Amount strands wire (Power) 7 Diameter of single wires (Power) 22 AWG Wire conductor cross section (Power) 22 AWG Material conductor wire (Power) copper stranded wire, tinned Nominal voltage AC max. 30 V Electrical function wire Data Characteristic impedance 100 Ω ± 15 % @ 1 MHz Electrical resistance line constant wire 90 Ω/km @ 20 °C Electrical resistance coating wire (Power) 55 Ω/km @20 °C AC withstand voltage (wire - wire) 0,5 kV @ 60 s Electric capacitance 50000 pF/km Power frequency withstand voltage (wire - sield) 0,5 kV @ 60 s Isolation resistance 1000 MΩ × km Min. operating temperature (static) -20 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 0 °C Operating temperature min. (dynamic) 60 °C Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing		±5 %
Amount strands wire (Power) 7 Diameter of single wires (Power) 22 AWG Wire conductor cross section (Power) 22 AWG Material conductor wire (Power) copper stranded wire, tinned Nominal voltage AC max. 30 V Electrical function wire Data Characteristic impedance 100 Ω ± 15 % @ 1 MHz Electrical resistance line constant wire 90 Ω /km @ 20 °C Electrical resistance coating wire (Power) 55 Ω /km @ 20 °C AC withstand voltage (wire - wire) 0.5 kV @ 60 s Electric capacitance 50000 pF/km Power frequency withstand voltage (wire - shield) 0.5 kV @ 60 s Isolation resistance 1000 Ω x km Min. operating temperature (static) -20 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 0 °C Operating temperature max. (dynamic) 60 °C Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 Chemical resistance Good, application-related testing	Ingredient freeness wire insulation (Power)	lead-free, CFC-free, halogen-free
Diameter of single wires (Power) 22 AWG Wire conductor cross section (Power) 22 AWG Material conductor wire (Power) copper stranded wire, tinned Nominal voltage AC max. 30 V Electrical function wire Data Characteristic impedance 100 Ω ± 15 % @ 1 MHz Electrical resistance line constant wire 90 Ω/km @ 20 °C Electrical resistance coating wire (Power) 55 Ω/km @20 °C AC withstand voltage (wire - wire) 0,5 kV @ 60 s Electric capacitance 50000 pF/km Power frequency withstand voltage (wire - shield) 0,5 kV @ 60 s Isolation resistance 1000 MΩ × km Min. operating temperature (static) -20 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 0 °C Operating temperature max. (dynamic) 60 °C Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing	Amount wires (Power)	2
Wire conductor cross section (Power) 22 AWG Material conductor wire (Power) copper stranded wire, tinned Nominal voltage AC max. 30 V Electrical function wire Data Characteristic impedance 100 Ω ± 15 % @ 1 MHz Electrical resistance line constant wire 90 Ω/km @ 20 °C Electrical resistance coating wire (Power) 55 Ω/km @20 °C AC withstand voltage (wire - wire) 0,5 kV @ 60 s Electric capacitance 50000 pF/km Power frequency withstand voltage (wire - iacket) 0,5 kV @ 60 s AC withstand voltage (wire - shield) 0,5 kV @ 60 s Isolation resistance 1000 MΩ × km Min. operating temperature (static) -20 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 0 °C Operating temperature max. (dynamic) 60 °C Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing	Amount strands wire (Power)	7
Material conductor wire (Power) copper stranded wire, tinned Nominal voltage AC max. 30 V Electrical function wire Data Characteristic impedance $100 \Omega \pm 15 \% 0 1 \text{ MHz}$ Electrical resistance line constant wire $90 \Omega / \text{km} 0 20 \text{ °C}$ Electrical resistance coating wire (Power) $55 \Omega / \text{km} 0 20 \text{ °C}$ AC withstand voltage (wire - wire) $0.5 \text{ kV} 0 60 \text{ s}$ Electric capacitance 50000 pF/km Power frequency withstand voltage (wire - jacket) $0.5 \text{ kV} 0 60 \text{ s}$ Isolation resistance $1000 \text{ M}\Omega \times \text{km}$ Min. operating temperature (static) -20 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 0 °C Coperating temperature max. (dynamic) 60 °C Flame resistance Good, application-related testing	Diameter of single wires (Power)	22 AWG
Nominal voltage AC max. 30 V Electrical function wire Data Characteristic impedance $100 \Omega \pm 15 \% @ 1 \text{ MHz}$ Electrical resistance line constant wire $90 \Omega \text{/km} @ 20 \text{ °C}$ Electrical resistance coating wire (Power) $55 \Omega \text{/km} @ 20 \text{ °C}$ AC withstand voltage (wire - wire) $0.5 \text{ kV} @ 60 \text{ s}$ Electric capacitance 50000 pF/km Power frequency withstand voltage (wire - $\frac{1}{1000 \text{ kV}} @ 60 \text{ s}$ ROW withstand voltage (wire - shield) $0.5 \text{ kV} @ 60 \text{ s}$ Isolation resistance $1000 \text{ M}\Omega \times \text{km}$ Min. operating temperature (static) -20 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 0 °C Cherating temperature max. (dynamic) 60 °C Flame resistance $0000 \text{ pp/km} = 0000 \text{ km} = 0000 \text$	Wire conductor cross section (Power)	22 AWG
Electrical function wire Data Characteristic impedance 100 Ω ± 15 % @ 1 MHz Electrical resistance line constant wire 90 Ω/km @ 20 °C Electrical resistance coating wire (Power) 55 Ω/km @ 20 °C AC withstand voltage (wire - wire) 0,5 kV @ 60 s Electric capacitance 50000 pF/km Power frequency withstand voltage (wire - shield) 0,5 kV @ 60 s AC withstand voltage (wire - shield) 0,5 kV @ 60 s Isolation resistance 1000 MΩ × km Min. operating temperature (static) -20 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 0 °C Operating temperature max. (dynamic) 60 °C Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing	Material conductor wire (Power)	copper stranded wire, tinned
Characteristic impedance $100 \Omega \pm 15 \% @ 1 \text{ MHz}$ Electrical resistance line constant wire $90 \Omega / \text{km} @ 20 \degree \text{C}$ Electrical resistance coating wire (Power) $55 \Omega / \text{km} @ 20 \degree \text{C}$ AC withstand voltage (wire - wire) $0.5 \text{ kV} @ 60 \text{ s}$ Electric capacitance 50000 pF/km Power frequency withstand voltage (wire - $0.5 \text{ kV} @ 60 \text{ s}$ Electric capacitance $0.5 \text{ kV} @ 60 \text{ s}$ AC withstand voltage (wire - shield) $0.5 \text{ kV} @ 60 \text{ s}$ Isolation resistance $0.5 \text{ kV} @ 60 \text{ s}$ Isolation resistance $0.5 \text{ kV} @ 60 \text{ s}$ Max. operating temperature (static) $0.5 \text{ kV} @ 60 \text{ s}$ Max. operating temperature (fixed) $0.5 \text{ kV} @ 60 \text{ s}$ Operating temperature min. (dynamic) $0.5 \text{ kV} @ 60 \text{ s}$ Electric capacitance $0.5 \text{ kV} @ 60 \text{ s}$ Departing temperature (fixed) $0.5 \text{ kV} @ 60 \text{ s}$ Electric capacitance $0.5 \text{ kV} @ 60 \text{ s}$ Elect	Nominal voltage AC max.	30 V
Electrical resistance line constant wire 90 Ω/km @ 20 °C Electrical resistance coating wire (Power) 55 Ω/km @ 20 °C AC withstand voltage (wire - wire) 0,5 kV @ 60 s Electric capacitance 50000 pF/km Power frequency withstand voltage (wire - jacket) 0,5 kV @ 60 s AC withstand voltage (wire - shield) 0,5 kV @ 60 s Isolation resistance 1000 MΩ × km Min. operating temperature (static) -20 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 0 °C Operating temperature max. (dynamic) 60 °C Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing	Electrical function wire	Data
Electrical resistance coating wire (Power) AC withstand voltage (wire - wire) Electric capacitance 50000 pF/km Power frequency withstand voltage (wire - jacket) AC withstand voltage (wire - shield) O,5 kV @ 60 s AC withstand voltage (wire - shield) O,5 kV @ 60 s Isolation resistance 1000 MΩ × km Min. operating temperature (static) -20 °C Max. operating temperature (fixed) AC operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing	Characteristic impedance	100 Ω ± 15 % @ 1 MHz
AC withstand voltage (wire - wire) Electric capacitance 50000 pF/km Power frequency withstand voltage (wire - jacket) AC withstand voltage (wire - shield) 0,5 kV @ 60 s Isolation resistance 1000 MΩ × km Min. operating temperature (static) -20 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) O °C Operating temperature max. (dynamic) 60 °C Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing	Electrical resistance line constant wire	90 Ω/km @ 20 °C
Electric capacitance 50000 pF/km Power frequency withstand voltage (wire - jacket) $0.5 \text{ kV} \otimes 60 \text{ s}$ AC withstand voltage (wire - shield) $0.5 \text{ kV} \otimes 60 \text{ s}$ Isolation resistance $1000 \text{ M}\Omega \times \text{km}$ Min. operating temperature (static) -20 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 0 °C Operating temperature max. (dynamic) 60 °C Flame resistance $UL 1581 \text{ § } 1090 \text{ } UL 1581 \text{ § } 1100 \text{ FT2} \text{ } \text{IEC } 60332-2-2 \text{ chemical resistance}$ Good, application-related testing	Electrical resistance coating wire (Power)	55 Ω/km @20 °C
Power frequency withstand voltage (wire - jacket) $0.5 \text{ kV} @ 60 \text{ s}$ AC withstand voltage (wire - shield) $0.5 \text{ kV} @ 60 \text{ s}$ Isolation resistance $1000 \text{ M}Ω \times \text{km}$ Min. operating temperature (static) -20 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 0 °C Operating temperature max. (dynamic) 60 °C Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing	AC withstand voltage (wire - wire)	0,5 kV @ 60 s
jacket)0,5 kV @ 60 sAC withstand voltage (wire - shield)0,5 kV @ 60 sIsolation resistance1000 MΩ × kmMin. operating temperature (static)-20 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)0 °COperating temperature max. (dynamic)60 °CFlame resistanceUL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2chemical resistanceGood, application-related testing	Electric capacitance	50000 pF/km
Isolation resistance $1000 \text{ M}\Omega \times \text{km}$ Min. operating temperature (static) $-20 ^{\circ}\text{C}$ Max. operating temperature (fixed) $80 ^{\circ}\text{C}$ Operating temperature min. (dynamic) $0 ^{\circ}\text{C}$ Operating temperature max. (dynamic) $60 ^{\circ}\text{C}$ Flame resistanceUL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2chemical resistanceGood, application-related testing		0,5 kV @ 60 s
Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature min. (dynamic) Operating temperature max. (dynamic	AC withstand voltage (wire - shield)	0,5 kV @ 60 s
Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 0 °C Operating temperature max. (dynamic) 60 °C Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing	Isolation resistance	1000 MΩ × km
Operating temperature min. (dynamic) 0 °C Operating temperature max. (dynamic) 60 °C Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing	Min. operating temperature (static)	-20 °C
Operating temperature max. (dynamic) 60 °C Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing	Max. operating temperature (fixed)	0° ℃
Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing	Operating temperature min. (dynamic)	0 °C
chemical resistance Good, application-related testing	Operating temperature max. (dynamic)	60 °C
	Flame resistance	UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2
Gasoline resistance Good, application-related testing	chemical resistance	Good, application-related testing
	Gasoline resistance	Good, application-related testing



Oil resistance	Good, application-related testing DIN EN 60811-404
No. of bending cycles (C-track)	0,1 Mio.
Traversing distance (C-track)	10 m @ 25 °C horizontal
Travel speed (C-track)	0.5 m/s @ 25 °C