

## h-coupler MQ15 male - fem. 0° / fem. 270° 600V AC

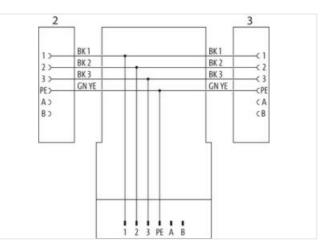
PUR 4x2.5 bk 1.5m / PUR 4x2.5 bk 0.3m

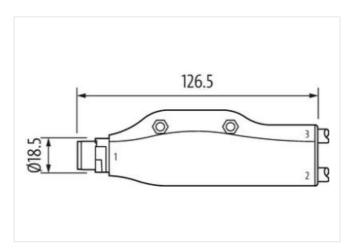
Male straight - female 90° / female straight MQ15, 4-pole partly used with cable sleeves Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

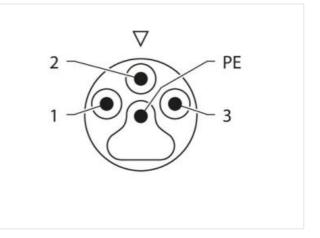
## Link to Product

Illustration



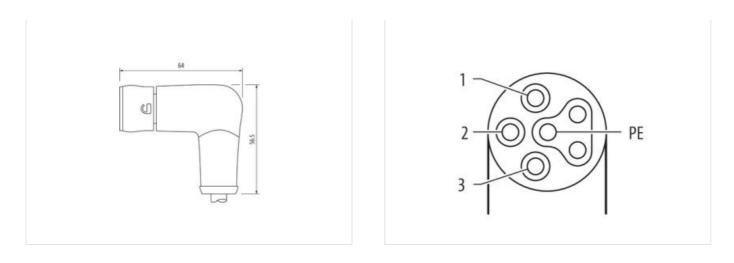


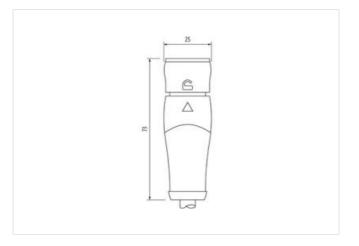


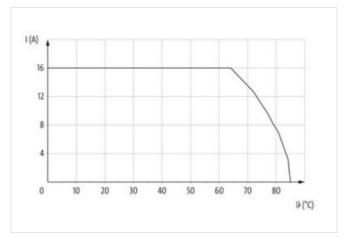


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Product may differ from Image



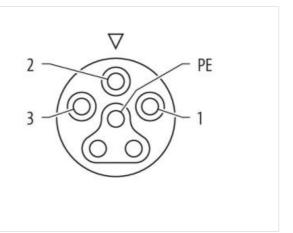
Cable length

1,5 m

Side 1

Mounting method inserted, locked

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Family construction form	MQ15
Cable outlet	straight
Coding	Туре 3
No. of poles	4
Degree of protection (EN IEC 60529)	IP65, IP67
Side 2	
Mounting method	inserted, locked
Family construction form	MQ15
suitable for corrugated tube (internal Ø)	18 mm
Cable outlet	straight
Coding	Type 3
No. of poles	4
Degree of protection (EN IEC 60529)	
Side 3	
Mounting method	inserted, locked
Family construction form	MQ15
Coding	Type 3
No. of poles	4
Degree of protection (EN IEC 60529)	IP65, IP67
Cable outlet	angled
suitable for corrugated tube (internal $\emptyset$ )	18 mm
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4065909077214
Packaging unit	1
Electrical data   Supply	
Operating voltage AC max.	600 V
Current operating per contact max.	16 A
Diagnostics	
Status indication LED	no
Installation   Pin assignment	
Coding	Туре 3
Configuration	partly used
Device protection   Electrical	
Additional condition protection degree	inserted, locked
	3
Pollution Degree	6 kV
	0 KV
Rated surge voltage	
Rated surge voltage Aaterial group (IEC 60664-1)	
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data   Material data Material contact carrier	
Rated surge voltage Aaterial group (IEC 60664-1)	PA POM

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Environmental characteristics   Climatic           Operating tomporative min.         30 °C           Concentry tomporative min.         35 °C           Additional condition tomperature may         depending tomporative max.           Important instaliation noise         Material condition tomperature may           Important instaliation noise         Protect the connectors by saliable measures from mechanical backs, e.g. by the usage of cable lees.           Note on starting readies         Attention. Closure on the purisible backing readies and the instaliation of the connectors by saliable measures from mechanical backs, e.g. by the usage of cable lees.           Dealer and mark         IEC 61076 2-116           Installation         Geoder 10000           Dealer and mark         IEC 61076 2-116           Installation         Geoder 10000           Datable identification         Page and the saliable dealer and the saliable de	Looking techniques	bayonet-locking
Operating temperature min.         40 °C           Operating temperature max.         85 °C           Addinant confidem temperature may.         depending on cable quality           Important installation notes         Attention: Confidence temperature may.           Note on stain relif         Product the connectors by sublem measures from machanical lacks, e.g. by the usage of cable lines.           Note on bending radius         Attention: Concerve the permitsible bending radii wine laying cables, as the IP protection class can be andingered by successib bending forces.           Contornity         Image: Concerve the permitsible bending radii wine laying cables, as the IP protection class can be andingered by successib bending forces.           Cable Type         Contornity           Installation (Cable         ure arrangement           ore arrangement         green yellow, black 3, black 2, black 1           Cable Type         3           Fining color of vine insulation         while (inclain black)           Jacke Color         Dasck           Type of Centrifices         QIPM           Amount stardning         1           Strandning         4 versus leveld           Water advertifices (acode)         9.5 Strong A           Freedom form ingredies (gabed)         9.5 Strong A           Cade weight         2.1 Strong           Outer		
Operating temperature many         85 °C           Additional condition temperature many         depending on cable quality           Important installation notes         Protect the comporter by suitable measures from mechanical loads, og by the usage of cable los.           Note on strain rulei         Protect the comporter by suitable measures from mechanical loads, og by the usage of cable los.           Contormity         Image: suitable measures from mechanical loads, ag by the usage of cable los.           Product standard         IEC 61078-2-116           Imailation 1 Cable         wite arrangement           Gabie Identification         P36           Cable Identification         P36           Cable Identification         P36           Cable Identification         P38           Type of Cartification         White (relation black)           Jacket Clore         Ibark           Yape of Cartification         QHRus           Amount strainding         1           Strainding         4 wires tweated           Ware arrangement         green-yellow, black 3, black 2, black 1           Cable weight         20.1.3 grm           Material jack         PUF           Faedom from ingradinating (select)         8.7 mm           Cable damange (select)         8.7 mm           Ca	•	
Additional condition temperature range         depending on cable quality           Important Installation notes         Protect the connectors by sailable measures from mochanical loads, e.g. by the usage of cable less.           Note on strain reliaf         Protect the connectors by sailable measures from mochanical loads, e.g. by the usage of cable less.           Note on bunding radius         Attention: Observe the permissible bending radiu when laying cables, as the IP protection class can be ending for ces.           Contormity         Important Control (Control (		
Important installation notes         Vice to the connectors by stable measures from mechanical loads, e.g. by the usage of cable tes.           Note on burding radius         Attention: Observe the permissible bunding radii when is lying cables, as the IP protection class can be endangered by excessive bunding forces.           Conformity         Product strands         IE C6 (1076-2-116           Instillation I Cable         Immagenent         geon-yallow, black 3, black 2, black 1           Cable identification         P36         Cable identification           Data identification         P36         Cable identification           Type of Carlificate         olffilia.         Cable identification           Type of Carlificate         olffilia.         Cable identification           Type of Carlificate         olffilia.         Cable identification           Viria arrangement         green-yallow, black 2, black 1         Cable identification           Cable weighn         201.3 g/m         Cable identification         Cable weighn         201.3 g/m           Tolerance outer diameter insultation         PAR         Cable identification         Cable identification           Carde diameter insultation         PAR         Cable weighn         Since Address identifieation         Cable identifieation           Carde diameter insultation         PAR         Cable identifieatidentin		
Nate on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.           Note on bunding radius         Attention: Observe the permissible bending radius has haying cables, as the IP protection class can be and any of the solution of the solutis of the solution of the solution of the solution of	Additional condition temperature range	depending on cable quality
Note on bending radius         Aftention: Observe the permissible bending radii when laying cables, as the IP protection class can be and angored by excessive bending forces.           Contornity         Product standard         IEC 61076-2-116           Installation   Cable         Image: Cable	Important installation notes	
Nucle of behalting funduals         endangened by excessive bandling forces.           Contormity         Product standard         ECC 61076-2-116           Installation   Cable         Installation   Cable         Installation   Cable           wire arrangement         green-yellow, black 3, black 2, black 1         Cable 1000000000000000000000000000000000000	Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Product standard         IEC 61078-2:116           Installation (Cable         green-yellow, black 3, black 2, black 1           Cable Genification         P36           Cable Type         3           Printing color of wire insulation         white (isolation black)           Jacket Color         black           Type of Cortificate         CURus           Amount stranding         1           Stranding         4 virres twisted           wire arrangement         green-yellow, black 3, black 2, black 1           Cable weight         2013, 30 m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free           Outer -diameter (jacket)         lead-free, cadmium-free, CFC-free, halogen-free           Outer -diameter insulation         PP           Amount views         4           Outer -diameter insulation         2.5 %           Shore hardness wire insulation         1.5 %           Material wire insulation         1.5 %           Material color of wire insulation         9.5 Shore D           Ingredient freenees wire insulation         9.6 Shore D           Ingredient freenees wire insulation	Note on bending radius	
Installation   Cable           wire arrangement         green-yellow, black 3, black 2, black 1           Cable identification         P36           Cable identification         P36           Cable fype         3           Printing oolr of vire insulation         white isolation black)           Jacket Color         black           Type of Cafficate         cuBus           Amount stranding         1           Stranding         qreen-yellow, black 3, black 2, black 1           Cable weight         201.3 g/m           Material jacket         PUR           Shore hardness jacket         90.1 5 Shore A           Freedom from ingredents (jacket)         lead-free, casthium-free, CFC-free, halogen-free           Outer diameter (sheath)         1.5 %           Material jacket         PP           Amount wires         4           Outer diameter insulation         PB 5 Shore D           Ingredient freeness wire insulation         60.1 5 Shore D           Ingredient freeness wire insulation         63.5 Shore D           Ingredient freeness wire insulation         lead 5 Shore D           Ingredient freeness wire insulation         lead 5 Shore D           Ingredient freeness wire insulation         lead 5 Shore D	Conformity	
wire arrangement         green-yellow, black 3, black 2, black 1           Cable identification         P36           Cable Gabe Type         3           Printing color of wire insulation         white (isolation black)           Jacket Color         black           Type of Cartificatie         cUBus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         green-yellow, black 2, black 2, black 1           Cable weigh         201.3 g/m           Material jacket         PUR           Shore hardness jacket         PUR           Shore hardness jacket         PUR           Shore hardness jacket         PUR           Cable weigh         201.3 g/m           Tolerance outer diameter (sheath)         ± 5 %           Material were insulation         PP           Amount wires         4           Outer diameter (sheath)         ± 5 %           Shore hardness wire insulation         60 ± 5 Shore D           Ingredient feenees wire insulation         60 ± 5 Shore D           Shore hardness wire insulation         16 ad-5 Shore D           Ingredient feenees wire insulation         16 ad-5 Shore D           Indicatin treenees wire insulation         <	Product standard	IEC 61076-2-116
Cable identification         P36           Cable identification         white (isolation black)           Jacket Color         black           Type of Orkine insulation         white (isolation black)           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         green-yellow, black 3, black 2, black 1           Cable weigh         201,3 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jackot)         8,7 mm           Tolerance outer diameter (jackot)         8,7 mm           Tolerance outer diameter (soluton)         2,85 mm           Outer diameter insulation         PP           Amount strands (wire)         1,65 %           Shore hardness wire insulation         60 ± 5 Shore D           Ingredient fleeness wire insulation         162 %           Shore hardness wire insulation         white (jackat)           Ingredient fleeness wire insulation         white (jackat)           Outer diameter rolesauction (wire)         2,5 mm <sup>2</sup> Conductor crossesection (wire)         2,5 mm <sup>2</sup> <	Installation   Cable	
Cable Type         3           Printing color of wire insulation         while (isolation black)           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         green-yollow, black 3, black 2, black 1           Cable weight         201.3 g/m           Material jacket         PUR           Shore hardness jacket         90.± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free           Outer-diameter (jacket)         8.7 mm           Tolerance outer dameter (alveath)         ± 5 %           Material jacket         PUR           Amount wires         4           Outer diameter insulation         PP           Amount wires         4           Outer diameter insulation         6.0 ± 5 Shore D           Ingredient freeness wire insulation         4.0           Outer diameter insulation         while (isolation black)           Amount strands (wire)         140           Diameter differees wire insulation         while (solation black)           Arroweit wire insulation         toff minet (solathoblack)           Amount	wire arrangement	green-yellow, black 3, black 2, black 1
Printing color of wire insulation     white (isolation black)       Jacket Color     black       Type of Certificate     cURvs       Arrount stranding     1       Stranding     4 wires twisted       wire arrangement     green-yellow, black 3, black 2, black 1       Cable weigth     201.3 g/m       Material jacket     PUR       Shore hardness jacket     90.4 5 Shore A       Freedom from ingradients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free       Outer-diameter (jacket)     8.7 mm       Tolerance outer diameter (seath)     ± 5 %       Material wire insulation     PP       Arnount wires     4       Outer diameter insulation     2.85 mm       Outer diameter insulation     2.85 mm       Outer diameter insulation     6.9 ± %       Shore hardness wire insulation     4.0       Outer diameter insulation     4.0       Outer diameter insulation     4.0       Outer diameter insulation     white (solation black)       Arnount strands (wire)     1.40       Diameter of signal wires     0.15 mm       Conductor type (wire)     3.7 mm <sup>1</sup> Conductor type (wire)     Stranded copper wire, bare       Conductor type (wire)     1.01 VU DE 0298-4       Current load capacity mint. wire     0.05 mm	Cable identification	P36
Printing color of wire insulation     white (isolation black)       Jacket Color     black       Type of Certificate     cURvs       Arrount stranding     1       Stranding     4 wires twisted       wire arrangement     green-yellow, black 3, black 2, black 1       Cable weigth     201.3 g/m       Material jacket     PUR       Shore hardness jacket     90.4 5 Shore A       Freedom from ingradients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free       Outer-diameter (jacket)     8.7 mm       Tolerance outer diameter (seath)     ± 5 %       Material wire insulation     PP       Arnount wires     4       Outer diameter insulation     2.85 mm       Outer diameter insulation     2.85 mm       Outer diameter insulation     6.9 ± %       Shore hardness wire insulation     4.0       Outer diameter insulation     4.0       Outer diameter insulation     4.0       Outer diameter insulation     white (solation black)       Arnount strands (wire)     1.40       Diameter of signal wires     0.15 mm       Conductor type (wire)     3.7 mm <sup>1</sup> Conductor type (wire)     Stranded copper wire, bare       Conductor type (wire)     1.01 VU DE 0298-4       Current load capacity mint. wire     0.05 mm	Cable Type	3
Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         green-yellow, black 3, black 2, black 1           Cable weigh         201.3 g/m           Material jacket         PUR           Shore hardness jacket         90.± S Shore A           Freedom from ingredents (jacket)         1ead-free, cadmium-free, CFC-free, halogen-free           Outer-diameter (jacket)         8.7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter tolerance core insulation         £ 5%           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         £ 5%           Shore hardness wire insulation         60 ± 5 Shore D           Ingredient freeness wire insulation         iead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Printing color of wire insulation         white (isolation black)           Mount strands (wire)         140           Diameter of single wires         0.15 mm           Conductor type (wire)         \$ 5 m <sup>2</sup>		white (isolation black)
Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         green-yellow, black 3, black 2, black 1           Cable weigh         201.3 g/m           Material jacket         PUR           Shore hardness jacket         PUR           Shore hardness jacket         91.5 Shore A           Freedom from ingredients (jacket)         Isad-free, cadmium-free, CFC-free, halogen-free           Outer diameter (jacket)         8,7 mm           Tolerance outer diameter (sheath)         5 %           Material wire insulation         PP           Amount Wires         4           Outer diameter insulation         2,85 mm           Outer diameter tolerance core insulation         1,5 %           Shore hardness wire insulation         163 ± 5 Shore D           Ingredient freeness wire insulation         140           Diameter of single wires         0,15 mm           Conductor or sossection (wire)         2,5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor or sossection (wire)         2,5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor or sossection (wire)         2,5		
Amount stranding       1         Stranding       4 wires twisted         wire arrangement       green-yellow, black 3, black 2, black 1         Cable weight       201.3 g/m         Material jacket       PUR         Shore hardness jacket       90 ± 5 Shore A         Freedom from ingredients (jacket)       8.7 mm         Tolerance outer diameter (jscket)       8.7 mm         Tolerance outer diameter (jscket)       8.7 mm         Tolerance outer diameter (jscket)       5 %         Amount wires       4         Outer diameter (jscket)       2.85 mm         Outer diameter insulation       2.95 mm         Outer diameter insulation       6.0 ± 5 Shore D         Ingredient freeness wire insulation       6.0 ± 5 Shore D         Ingredient freeness wire insulation       140         Diameter of single wires       0.15 mm         Conductor crossection (wire)       1.5 mm²         Conductor wire       Stranded copper wire, bare         Conductor wire       Stranded copper wire, bare         Conductor wire       Stranded copper wire, bare         Conductor wire)       10 NVD @ 2038-4         Current load capacity min. wire       20,8 A         Current load capacity min. wire       20,8 A		
wire arrangement         green-yellow, black 3, black 2, black 1           Cable weigth         201,3 g/m           Material jacket         PUR           Shore hardness jacket         90 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free           Outer-diameter (jackat)         8,7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         2.85 mm           Outer diameter insulation         60 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free           Printing color of wire insulation         white (solation black)           Amount stranks         0.15 mm           Conductor vire         0.15 mm           Conductor wire         Stranded copper wire, bare           Conductor vire (wire)         1.5 mm           Conductor wire         2.0 k A           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min, wire         20.8 A           Electrical resistance line constant wire         80 °C /90 °C @ 10000 h Operation           Power frequency withstand voltage (wire - wire)		1
wire arrangement         green-yellow, black 3, black 2, black 1           Cable weigth         201,3 g/m           Material jacket         PUR           Shore hardness jacket         90 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free           Outer-diameter (jackat)         8,7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         2,85 mm           Outer diameter insulation         60 ± 5 Shore D           Ingredient freeness wire insulation         60 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Printing color of wire insulation         white (isolation black)           Amount strands (wire)         140           Diameter of single wires         0,15 mm           Conductor type (wire)         strand class 6           Nominal voltage AC max.         1000 V           Current load capacity (strandard)         to DIN VDE 0238-4           Current load capacity min, wire         20,8 A           Electrical resistance line constant wire         80 °C / 90 °C @ 10000 h Operation           Ope	5	4 wires twisted
Cable weigh       201,3 g/m         Material jacket       PUR         Shore hardness jacket       90 ± 5 Shore A         Freedom from ingredients (jacket)       lead-free, cadmium-free, CFC-free, halogen-free         Outer diameter (jacket)       8,7 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       PP         Amount wires       4         Outer diameter tolerance core insulation       2.85 mm         Outer diameter tolerance core insulation       6.4 ± 5 %         Shore hardness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free         Printing color of wire insulation       lead-free, cadmium-free, CFC-free, halogen-free         Printing color of wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Printing color of wire insulation       white (isolation black)         Amount wires       0,15 mm         Conductor crosssection (wire)       2,5 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Nominal voltage AC max.       1000 V         Current load capacity (standard)       to DIN VDE 0288-4         Current load capacity (wire)       10 kV Ø 60 s         Power frequency withstan		
Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free           Outer-diameter (jacket)         8,7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Armount wires         4           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         60 ± 5 Shore D           Ingredient freeness wire insulation         60 ± 5 Shore D           Ingredient freeness wire insulation         wite (solation back)           Amount strands (wire)         140           Diameter of single wires         0.15 mm           Conductor cossection (wire)         2.5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strande clospe of wire, bare           Conductor type (wire)         stranded copper vire, bare           Conductor type (wire)         10 NV DE 0288-4           Current toad capacity (standard)         to DIN VDE 0288-4           Current toad capacity (wire-wire)         10 kV @ 60 s           Power frequency withstand voltage (wire - wire)         10 kV @ 60 s           Power frequ		
Shore hardness jacket     90 ± 5 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free       Outer-diameter (jacket)     8,7 mm       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PP       Amount wires     4       Outer diameter tolerance outer folderance or insulation     2,85 mm       Outer diameter tolerance or cer insulation     60 ± 5 Shore D       Ingredient freeness wire insulation     60 ± 5 Shore D       Ingredient freeness wire insulation     white (isolation black)       Amount strands (wire)     140       Diameter of wire insulation     white (isolation black)       Amount strands (wire)     140       Diameter of single wires     0,15 mm       Conduct rype (wire)     stranded copper wire, bare       Conductor rype (wire)     strand class 6       Nominal voltage AC max.     1000 V       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity (standard)     to NIV QE 00 s       Power frequency withstand voltage (wire - wire)     10 kV @ 60 s       Min. operafing temperature (stafic)     -50 °C       Mar. operafing temperature (stafic)     -50 °C       Mar. operafing temperature (stafic)     -50 °C       Min. operafing temperature (stafic)     -50 °C	-	
Freedom from ingredients (jacket)       lead-free, cadmium-free, CFC-free, halogen-free         Outer-diameter (jacket)       8.7 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       PP         Amount wires       4         Outer diameter insulation       2.85 mm         Outer diameter tolerance core insulation       £ 5 %         Shore hardness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Printing color of wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Printing color of wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Printing color of wire insulation       white (isolation black)         Amount strands (wire)       140         Diameter of single wires       0.15 mm         Conductor rossesction (wire)       2.5 mm <sup>2</sup> Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strande dass 6         Nominal voltage AC max.       1000 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (standard)		
Outer-diameter (jacket)         8,7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         2,85 mm           Outer diameter insulation         ± 5 %           Shore hardness wire insulation         60 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Printing color of wire insulation         white (isolation black)           Amount strands (wire)         140           Diameter of single wires         0,15 mm           Conductor wire         Stranded copper wire, bare           Conductor wire         Stranded copper wire, bare           Conductor vire         Stranded copper wire, bare           Conductor vire         Stranded copper wire, bare           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity win, wire         20.8 A           Electrical resistance line constant wire         8 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         10 kV @ 60 s           Power frequency withstand voltage (wire - inc)         10 kV @ 60 s           Min. operating temperature (statc)         -50 °C           Mas		
Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       PP         Amount wires       4         Outer diameter insulation       2,85 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       60 ± 5 Shore D         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Printing color of wire insulation       white (isolation black)         Amount strands (wire)       140         Diameter of single wires       0,15 mm         Conductor crosssection (wire)       2,5 mm²         Material conductor wire       Stranded copper wire, bare         Conductor vire       Stranded copper wire, bare         Conductor wire       Stranded copper wire, bare         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       20,8 A		
Material wire insulation     PP       Amount wires     4       Outer diameter insulation     2.85 mm       Outer diameter insulation     ± 5 %       Shore hardness wire insulation     60 ± 5 Shore D       Ingredient freeness wire insulation     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Printing color of wire insulation     white (isolation black)       Amount strands (wire)     140       Diameter of single wires     0,15 mm       Conductor crosssection (wire)     2,5 mm²       Material conductor wire     Stranded copper wire, bare       Conductor type (wire)     strand class 6       Nominal voltage AC max.     1000 V       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity (standard)     to DIN VDE 0298-4       Ca withstand voltage (wire - wire)     10 kV @ 60 s       Power frequency withstand voltage (wire - wire)     10 kV @ 60 s       Power frequency withstand voltage (wire - ine)     10 kV @ 60 s       Min. operating temperature (fixed)     80 °C / 90 °C @ 10000 h Operation       Operating temperature min. (dynamic)     -25 °C       Operating temperature min. (dynamic)     -25 °C       Operating temperature max. (dynamic)     80 °C / 90 °C @ 10000 h Operation       UV resistance     UI 1581 § 1100 FT2   IEC 60332-1-2   UL 1581 § 1090   IEC 60332-2-2		·
Amount wires       4         Outer diameter insulation       2,85 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       60 ± 5 Shore D         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Printing color of wire insulation       white (isolation black)         Amount strands (wire)       140         Diameter of single wires       0,15 mm         Conductor rosssection (wire)       2,5 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Nominal voltage AC max.       1000 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (wine - wire)       10 kV @ 60 s         Power frequency withstand voltage (wire - ing acket)       -50 °C         Max. operating temperature (static)       -50 °C         Max. operating temperature (isked)       80 °C / 90 °C @ 10000 h Operation         Operating temperature (mixe)       80 °C / 90 °C @ 10000 h Operation         Operating temperature (isked)       80 °C / 90 °C @ 10000 h Operation         Operating temperature (isked)       80 °C / 90 °C @ 10000 h Op		
Outer diameter insulation         2,85 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         60 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Printing color of wire insulation         white (isolation black)           Amount strands (wire)         140           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         2,5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         1000 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wine - wire)         10 kV @ 60 s           Power frequency withstand voltage (wire - ing)         10 kV @ 60 s           Power frequency withstand voltage (wire - ing 400 °C C         Ac with stand voltage (wire - ing 400 °C C)           Max. operating temperature (static)         -50 °C           Max. operating temperature (static)         -50 °C           Operating temperature (inced)         80 °C / 90 °C @ 10000 h Operation           Operating temperature (inced)         80 °C /		
Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         60 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Printing color of wire insulation         white (isolation black)           Amount strands (wire)         140           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         2,5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         1000 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wire - wire)         10 kV @ 60 s           Power frequency withstand voltage (wire - ine)         10 kV @ 60 s           Min. operating temperature (static)         -50 °C           Max. operating temperature (isced)         80 °C / 90 °C @ 10000 h Operation           Operating temperature max. (dynamic)         -25 °C           Operating temperature max. (dynamic)         -25 °C           Operating temperature max. (dynamic)         -25 °C           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation           UV resistance         DIN EN ISO 4892-2 A		
Shore hardness wire insulation       60 ± 5 Shore D         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Printing color of wire insulation       white (isolation black)         Amount strands (wire)       140         Diameter of single wires       0,15 mm         Conductor crosssection (wire)       2,5 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Nominal voltage AC max.       1000 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (withstand wire       20,8 A         Electrical resistance line constant wire       8 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       10 kV @ 60 s         Power frequency withstand voltage (wire - jacket)       100 kV @ 60 s         Min. operating temperature (static)       -50 °C         Max. operating temperature (fixed)       80 °C / 90 °C @ 10000 h Operation         Operating temperature min. (dynamic)       -25 °C         Operating temperature min. (dynamic)       -25 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         UV resistance       DIN EN ISO 4892-2 A         Flame resistance       UL 1581 § 1100		
Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Printing color of wire insulation       white (isolation black)         Amount strands (wire)       140         Diameter of single wires       0,15 mm         Conductor crosssection (wire)       2,5 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Nomial voltage AC max.       1000 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (wire - wire)       20,8 A         Electrical resistance line constant wire       8 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       10 kV @ 60 s         Power frequency withstand voltage (wire - jacket)       -50 °C         Max. operating temperature (static)       -50 °C         Max. operating temperature (fixed)       80 °C / 90 °C @ 10000 h Operation         Operating temperature min. (dynamic)       -25 °C         Operating temperature min. (dynamic)       80 °C / 90 °C @ 10000 h Operation         UV resistance       UI 1581 § 1100 FT2   IEC 60332-1-2   UL 1581 § 1090   IEC 60332-2-2		
Printing color of wire insulation       white (isolation black)         Amount strands (wire)       140         Diameter of single wires       0,15 mm         Conductor crosssection (wire)       2,5 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Nominal voltage AC max.       1000 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (wire - wire)       10 kV @ 60 s         Power frequency withstand voltage (wire - wire)       10 kV @ 60 s         Power frequency withstand voltage (wire - jacket)       -50 °C         Max. operating temperature (static)       -50 °C         Max. operating temperature (min. (dynamic)       -25 °C         Operating temperature min. (dynamic)       -25 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         UV resistance       UI 1581 § 1100 FT2   IEC 60332-1-2   UL 1581 § 1090   IEC 60332-2-2		
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Diameter of single wires0,15 mmConductor crosssection (wire)2,5 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Nominal voltage AC max.1000 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire20,8 AElectrical resistance line constant wire8 Ω/km @ 20 °CAC withstand voltage (wire - wire)10 kV @ 60 sPower frequency withstand voltage (wire - jacket)10 kV @ 60 sMin. operating temperature (static)-50 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   IEC 60332-1-2   UL 1581 § 1090   IEC 60332-2-2		
Conductor cossection (wire)2,5 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Nominal voltage AC max.1000 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire20,8 AElectrical resistance line constant wire8 Ω/km @ 20 °CAC withstand voltage (wire - wire)10 kV @ 60 sPower frequency withstand voltage (wire - jacket)10 kV @ 60 sMin. operating temperature (static)-50 °CMax. operating temperature (static)-50 °COperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   IEC 60332-1-2   UL 1581 § 1090   IEC 60332-2-2		
Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Nominal voltage AC max.       1000 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       20,8 A         Electrical resistance line constant wire       8 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       10 kV @ 60 s         Power frequency withstand voltage (wire - jacket)       10 kV @ 60 s         Min. operating temperature (static)       -50 °C         Max. operating temperature (fixed)       80 °C / 90 °C @ 10000 h Operation         Operating temperature min. (dynamic)       -25 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         UV resistance       DIN EN ISO 4892-2 A         Flame resistance       UL 1581 § 1100 FT2   IEC 60332-1-2   UL 1581 § 1090   IEC 60332-2-2		•
Conductor type (wire)strand class 6Nominal voltage AC max.1000 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire20,8 AElectrical resistance line constant wire8 Ω/km @ 20 °CAC withstand voltage (wire - wire)10 kV @ 60 sPower frequency withstand voltage (wire - jacket)10 kV @ 60 sMin. operating temperature (static)-50 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   IEC 60332-1-2   UL 1581 § 1090   IEC 60332-2-2		·
Nominal voltage AC max.1000 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire20,8 AElectrical resistance line constant wire8 Ω/km @ 20 °CAC withstand voltage (wire - wire)10 kV @ 60 sPower frequency withstand voltage (wire - jacket)10 kV @ 60 sMin. operating temperature (static)-50 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   IEC 60332-1-2   UL 1581 § 1090   IEC 60332-2-2		
Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire20,8 AElectrical resistance line constant wire8 Ω/km @ 20 °CAC withstand voltage (wire - wire)10 kV @ 60 sPower frequency withstand voltage (wire - jacket)10 kV @ 60 sMin. operating temperature (static)-50 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   IEC 60332-1-2   UL 1581 § 1090   IEC 60332-2-2		
Current load capacity min. wire       20,8 A         Electrical resistance line constant wire       8 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       10 kV @ 60 s         Power frequency withstand voltage (wire - jacket)       10 kV @ 60 s         Min. operating temperature (static)       -50 °C         Max. operating temperature (fixed)       80 °C / 90 °C @ 10000 h Operation         Operating temperature min. (dynamic)       -25 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         UV resistance       DIN EN ISO 4892-2 A         Flame resistance       UL 1581 § 1100 FT2   IEC 60332-1-2   UL 1581 § 1090   IEC 60332-2-2	-	
Electrical resistance line constant wire8 Ω/km @ 20 °CAC withstand voltage (wire - wire)10 kV @ 60 sPower frequency withstand voltage (wire - jacket)10 kV @ 60 sMin. operating temperature (static)-50 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   IEC 60332-1-2   UL 1581 § 1090   IEC 60332-2-2	1, 3, ( )	
AC withstand voltage (wire - wire)       10 kV @ 60 s         Power frequency withstand voltage (wire - jacket)       10 kV @ 60 s         Min. operating temperature (static)       -50 °C         Max. operating temperature (fixed)       80 °C / 90 °C @ 10000 h Operation         Operating temperature min. (dynamic)       -25 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         UV resistance       DIN EN ISO 4892-2 A         Flame resistance       UL 1581 § 1100 FT2   IEC 60332-1-2   UL 1581 § 1090   IEC 60332-2-2		
Power frequency withstand voltage (wire - jacket)10 kV @ 60 sMin. operating temperature (static)-50 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   IEC 60332-1-2   UL 1581 § 1090   IEC 60332-2-2		-
jacket)     10 kV @ 80 s       Min. operating temperature (static)     -50 °C       Max. operating temperature (fixed)     80 °C / 90 °C @ 10000 h Operation       Operating temperature min. (dynamic)     -25 °C       Operating temperature max. (dynamic)     80 °C / 90 °C @ 10000 h Operation       UV resistance     DIN EN ISO 4892-2 A       Flame resistance     UL 1581 § 1100 FT2   IEC 60332-1-2   UL 1581 § 1090   IEC 60332-2-2		10 KV @ 60 S
Max. operating temperature (fixed)       80 °C / 90 °C @ 10000 h Operation         Operating temperature min. (dynamic)       -25 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         UV resistance       DIN EN ISO 4892-2 A         Flame resistance       UL 1581 § 1100 FT2   IEC 60332-1-2   UL 1581 § 1090   IEC 60332-2-2	jacket)	
Operating temperature min. (dynamic)       -25 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         UV resistance       DIN EN ISO 4892-2 A         Flame resistance       UL 1581 § 1100 FT2   IEC 60332-1-2   UL 1581 § 1090   IEC 60332-2-2		
Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation           UV resistance         DIN EN ISO 4892-2 A           Flame resistance         UL 1581 § 1100 FT2   IEC 60332-1-2   UL 1581 § 1090   IEC 60332-2-2		
UV resistance         DIN EN ISO 4892-2 A           Flame resistance         UL 1581 § 1100 FT2   IEC 60332-1-2   UL 1581 § 1090   IEC 60332-2-2		
Flame resistance UL 1581 § 1100 FT2   IEC 60332-1-2   UL 1581 § 1090   IEC 60332-2-2		
	UV resistance	
chemical resistance Good, application-related testing	Flame resistance	UL 1581 § 1100 FT2   IEC 60332-1-2   UL 1581 § 1090   IEC 60332-2-2
	chemical resistance	Good, application-related testing

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Gasoline resistance	Good, application-related testing
Oil resistance	DIN EN 60811-404
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
No. of bending cycles (C-track)	5 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C
Travel speed (C-track)	3,3 m/s @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min

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