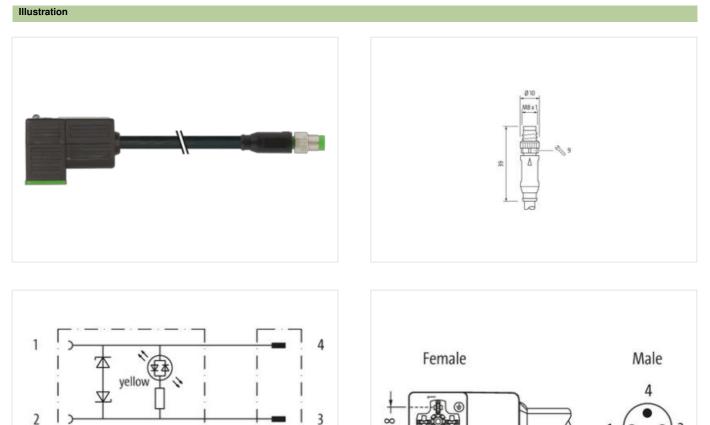


## M8 male 0° A-cod. / MSUD valve plug C-8mm small

PVC 3x0.34 bk UL/CSA 1.5m

MSUD Form C (8 mm) – M8, male straight 24 V AC ±20% / DC ±25% 2-pole used LED and suppression 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

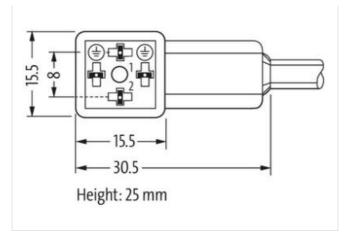


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The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-22

nc.





Product may differ from Image



Cable length	1,5 m
Side 1	
Fightening torque	0,4 Nm
amily construction form	M8
Thread	M2.5
Naterial	PUR
Vidth across flats	SW9
Side 2	
Tightening torque	0,4 Nm
Fhread	M8 x 1
Material	PBT
Commercial data	
ECLASS-6.0	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060312
ECLASS-11.1	27060312
ECLASS-12.0	27060312
ETIM-5.0	EC001855
sustoms tariff number	85444290
GTIN	4048879119818
Packaging unit	1
Electrical data	
Drop-out delay time max.	20 ms
Electrical data   Supply	
Dperating voltage AC	24 V
Operating voltage AC min.	19,2 V
Dperating voltage AC max.	28,8 V
Dperating voltage DC	24 V
Dperating voltage DC min.	18 V
Operating voltage DC max.	30 V

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Subscience         4 A           Dispectic         velocitation as.           Subscience         velocitation as.           Dispect protection [Electrical         velocitation as.           Madianal ascontation protection aspect         nestration assessment           Madianal aspect protection of [Electrical         velocitation assessment           Madianal protection aspect         nestration assessment           Madianal protection aspect protectio	Cut-off peak voltage max.	55 V
DepreserveVertice vorticeBrutes protection (EN EC 60329)IP65, IP67, IP68, IP67, IP67, IP68, IP67,		
Status indication LED         yoltow           Device projection [Electrice]         FPO, IPOB,		*^
Device protection   Electrical         PES, IPS7, IPS8, IPS8K           Degree of protection (EN IEC 60529)         IPS5, IPS7, IPS8, IPS8K           Additional condition protection degree         Inserted, screwed           Patted scope (TEC 60564+1)         I           Additional condition protection degree         0.8 kV           Materal group (TEC 60564+1)         I           Additional suppressor         Dolot, Z Dode           Mochanical data   Material Addition         Mochanical data   Material No.           Additional suppressor         Dolot, Z Dode           Mochanical data   Mounting method         Inserted           Locking methodial         Zine de-casting           Mochanical data   Mounting method         Inserted           Locking methodial         Zine de-casting           Mochanical data   Mounting methodial         Inserted           Locking methodial temperature range         depending on cable quality           Operating ingergenetarue min.         425 °C           Operating ingergenetarue min.         425 °C           Note on stain origin         Protect the commetors by suitable measurus from machanical loads, o.g. by the usage of cable flost.           Note on stain origin         Protect the commetors by suitable measurus from machanical loads, o.g. by the usage of cable flost.           Cable oberdificatino </td <td>Diagnostics</td> <td></td>	Diagnostics	
Depire of protection (EN IEC 60529)IP65, IP67, IP68, IP60KAdditional condition protection degreeisserted, soewedAdditional condition protection degree3Ratot supported (SOD64-1)IAdditional suppressorDode, Z-DodeMaterial group (IEC 60506-1)IAdditional suppressorDode, Z-DodeCoching lockingNakeledCoching lockingDode, Z-DodeMaterial ProvingDode, Z-DodeMaterial ProvingDode, Z-DodeCoching lockingDode, Z-DodeMaterial ProvingDode, S-DodeMaterial ProvingPasiceCoching lockingDode, S-DodeCoching locking lockingDode, S-DodeCoching locking locking locking lockingDodeCoching locking locking locking locking lockingDodeCoching locking lo	Status indication LED	yellow
Additional condition protection degree         inserted, screwed           Pullution Degree         3           Ratef surge voltage         0,8 kV           Material group (EC 6066-1)         1           Additional suppressor         Diode, 2-Diode           Mechanical data [Material data         Code           Coding looking         Nickledd           Odor housing         Plastic           Loding material         Zinc de-casting           Mechanical data [Material data         Zinc de-casting           Mechanical data [Material data         Zinc de-casting           Mounting mothod         inserted. screwed           Environmental characteriatics [Climotic         Operating temperature max.           Operating temperature max.         85 °C           Additional condition temperature max.         85 °C	Device protection   Electrical	
Publicion Degree     3       Rated supp votage     0,8 kV       Material group (UEC 6066-1)     1       Additional suppressor     Diode, Z Diode       Mechanical data [Material data]     Material data       Color housing     Nickeled       Color housing     Plastic       Locking moting     Nickeled       Color housing     Plastic       Locking moting     Nickeled       Color housing     Plastic       Locking material     Zin dio casting       Material nousing     Plastic       Color housing     dio casting       Material moting method     inserted, screwed       Environmental characteristics   Climatic     Climatic       Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional dontic to temporature range     depending on cable quality       Important Installation notes     Attention: Colserve the permissible bending rank were laying cables, as the IP protection dass can be endangered by eccessive bending forces.       Installation I Cable     Viet the connectors by sublab measures from mechanical loads, e.g. by the usage of cable ties.       Installation I Cable     Viet arrangement       Installation I Cable     Dorwn, black, blue       Cable forgin     1       Sacket Colo     black       Type	Degree of protection (EN IEC 60529)	IP65, IP67, IP68, IP66K
Rates surge voltage         0.8 kV           Material group (EC 00064-1)         1           Caluly group (EC 00064-1)         1           Caluly group (EC 00064-1)         1           Caluly group (EC 00064-1)         Neckeld           Material process         Zinc de casting           Mechanical dial [Moutting data         Zinc de casting           Mechanical dial [Moutting data         Zinc de casting           Mechanical dial [Moutting data         Zinc de casting           Mechanical condition temperature max.         25 °C           Operating temperature max.         25 °C           Operating temperature max.         25 °C           Additional condition temperature max.         25 °C           Additional condition temperature max.         25 °C           Additional condition temperature max.         25 °C           Mouting radius         Attention: Observe the permissible bending tandit when laying cables, as the IP protection dasas can be endangr	Additional condition protection degree	inserted, screwed
Material group (EC 606641)         I           Additional suppressor         Diode, Z-Diode           Mechanical data (Material data         Edebanical data (Material data)           Coaling looking         Nickeled           Calor Inosing         Black           Material housing         Plassic           Locking material         Zinc die-casting           Mechanical data (Mounting data         Mechanical data (Mounting data           Mounting method         inserted, screwed           Environmental characteristics ( Climatic         Operating temperature max.           Operating temperature max.         85 °C           Additional conciton temperature mape         depending on cable quality           Importatin installation notes         St °C           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending torces.           Material Cable         Wrie arrangement           wire arrangement         brown, black, blue           Cable Topp         1           Jacket Color         black           Type of Certificata         QUFua           Amount strainding         1           Stranding         3 wires twisted           Wrie arrangement         brown, b	Pollution Degree	3
Additional auppressor         Diode, Z-Diode           Mechanical data [ Material data         Coating locking         Nickeled           Coating locking         Baak         Material housing         Plassic           Locking material         Zine die-casting         Material housing         Plassic           Mechanical data [ Mounting data         Mechanical data [ Mounting data         Mechanical data [ Mounting data           Mechanical data [ Material data         Back         Mechanical data [ Material data           Mechanical data [ Mounting data         Mechanical data [ Mounting data         Mechanical data [ Mounting data           Mechanical data [ Mounting data         Mechanical data [ Mounting data         Mechanical data [ Mounting data           Mechanical data [ Mounting data         Mechanical data [ Mounting data         Mechanical data [ Mounting data           Mounting method         inserted, screwed         Environmethal characteristics [ Climate           Operating temperature max.         85 °C         Comparising temperature max.         85 °C           Additional condition temperature may         depending on cable quality         Mechanical data [ Mounting data         Mechanical data [ Mounting data           Important Installation notes         Attention: Cosens the purpoisable bending ratil when laying cables, as the IP protoction class can be endangreed by exceesive bending forces.         Mecha	Rated surge voltage	0,8 kV
Mechanical data   Material data           Coaling looking         Nickeled           Color housing         Makerial housing           Metarial housing         Pastic           Locking material         Zinc disc-asting           Metarial housing         Inserted, screwed           Environmental characteristics   Climatic         Comparison           Operating temperature min.         -25 °C           Operating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature may.         depending on cable quality           Important institution notes         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endingered by excessive bending forces.           Institution [ Globe            wire arrangement         brown, black, blue           Cable forpe         1           Jacket Cooir         black           Type of Certificate         cURus           Additional         3 wires twisted           Ware strainding         1           Jacket Cooir         black           Type of Certificate         6 ST oF A	Material group (IEC 60664-1)	I
Caling locking         Nickeled           Color housing         Black           Meterial housing         Plasio           Locking material         Zinc die-casting           Metherial housing         Inserted, screwed           Extroomenial characteristics [Climatic         Extroomenial characteristics [Climatic           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important Installation notes         Protoe the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tes.           Note on strain rollef         Protoct the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tes.           Note on strain rollef         Protoct the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tes.           Installation Cable         Attention: Observe the permissible bending radii when laying cables, as the IP protoction class can be created screatered screates the tending forces.           Installation Cable         Freedom           Cable Cobr         1           Jackel Cobr         1           Jackel Cobr         1           Jackel Cobr         1           Jackel Cobr         1           Metherial bousing         3 wires twiteted           Wire arangement <t< td=""><td>Additional suppressor</td><td>Diode, Z-Diode</td></t<>	Additional suppressor	Diode, Z-Diode
Color housing         black           Material housing         Plastic           Locking material         Zinc dic-asiling           Mechanical data   Mounting data         Inserted, screwed           Environmental characteristics   Climatic         Operating temperature min.           Operating temperature main.         25 °C           Operating temperature max.         85 °C           Additional condition temperature may.         85 °C           Additional condition temperature may.         85 °C           Additional condition temperature may.         85 °C           Note on strain rollef         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ites.           Intertion: Observe the permissible bending radii when laying cables, as the IP protection class can be endangeroot by occessive bonding forces.           Installation (Cable         Vice an strain rollef           wire arrangement         brown, black, blue           Cable Hype         1           Cable Color         black           Type of Certificate         cURus           Arranding         3 wires twisted           wire arrangement         brown, black, blue           Cable weight         34,1 g/m           Material isoket         PVC           Shore hortness isoket	Mechanical data   Material data	
Material hosing         Plastic           Locking material         Zino die-casting           Mechanical data   Mounting data         Mounting method         Inserted. screwed           Environmental characteristics   Climatic         Coperating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature max.         85 °C           Additional condition temperature may.         depending on cable quality           Important installation notes         Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable les.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable les.           Installation I Cable         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Installation I Cable         Usage           Use a ranagement         brown, black, blue           Cable identification         613           Cable identification         613           Cable identification         1           Stranding         3 wires twisted           Write arrangement         brown, black, blue           Cable weight         94,1 gm           Material alcokt	Coating locking	Nickeled
Locking material         Zinc die-casting           Meunting method         inserted, screwed           Environmental characteristics (Climatic Operating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature may.         85 °C           Addition accomments         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on stain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be ending to the scassive bending forces.           Installation (Cable         Vector bending for the scassive bending forces.           Additional         Environmental characteristics (Climatic           Cable (clerificate         URus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           Cable weigh         3.4.1 g/m	Color housing	black
Mechanical data   Mounting data           Mounting method         inserted, screwed           Environmental characteristics   Climatic           Operating temperature min.         -25 °C           Operating temperature man.         65 °C           Additional condition temperature mane         depending on cable quality           Important installation notes         Additional condition temperature mane           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.           Installation I Cable         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Installation Cable         brown, black, blue           Cable dentification         613           Cable Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           Cable weight         34,1 g/m           Material jackat         PVC           Stranding is acket         85 15 Shore A           Freedom from ingredients (jacket)         Lead-free, cadmium-free, CFC-free, silicone-free           Outer diameter (jacket)         45 fit Shore A	Material housing	Plastic
Mounting method         inserted, screwed           Environmental characteristics   Climatic           Operating temporature min.         -25 °C           Operating temporature max.         85 °C           Additional condition temporature max.         dopending on cable quality           Important installation notes         Mote on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Installation I Cable         Material protects the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Installation I Cable         Brown, black, blue         Cable Identification           Cable Identification         613         Cable Identification           Cable Identification         613         Cable Identification           Mount stranding         1         Stranding         Identification           Yee Or Collicate         CPRus         Cable Identification         Identification           Cable dentification         Biack         Type of Call Identification         Identification           Cable dentification         Color         biack         Type of Call Identification         Identification           Cable dentification         Color         biack         Type of Call Identification         Identification	Locking material	Zinc die-casting
Mounting method         inserted, screwed           Environmental characteristics   Climatic           Operating temporature min.         -25 °C           Operating temporature max.         85 °C           Additional condition temporature max.         dopending on cable quality           Important installation notes         Mote on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Installation I Cable         Material protects the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Installation I Cable         Brown, black, blue         Cable Identification           Cable Identification         613         Cable Identification           Cable Identification         613         Cable Identification           Mount stranding         1         Stranding         Identification           Yee Or Collicate         CPRus         Cable Identification         Identification           Cable dentification         Biack         Type of Call Identification         Identification           Cable dentification         Color         biack         Type of Call Identification         Identification           Cable dentification         Color         biack         Type of Call Identification         Identification	Mechanical data   Mounting data	
Environmental characteristics   Climatic           Operating temperature min.         25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Important installation notes           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by accessive bending forces.           Installation I Cable         View arrangement           brown, black, blue         Cable identification           Cable identification         613           Cable of Corir         black           Type of Certificate         cURus           Amount stranding         1           Jacket Color         black           Stranding         3 wires twisted           wire arrangement         brown, black, blue           Cable weight         34,1 grm           Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer diameter (jacket)         ± 5 % <td></td> <td>inserted, screwed</td>		inserted, screwed
Operating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Note on stain relief           Note on stain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Installation roles         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Installation f Cable         wire arrangement         brown, black, blue           Cable Identification         613         Cable Color           Jacket Color         black         Derive of the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Xire arrangement         brown, black, blue         Cable Identificate           Cable Type         1         Jacket Color           Jacket Color         black         Type of Certificate           Yire of Certificate         cURus         Amount stranding           Wire arrangement         brown, black, blue         Cable weight           Gable weight         34,1 g/m         Material jacket         PVC           Shore hardmess jacket         85 ± S Shore A         Freedom from ingredients (jacket)         4		
Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Installation   Cable         ************************************		-25 °C
Additional condition temperature range         depending on cable quality           Important installation notes         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Installation   Cable         Attention: Observe the permissible bending forces.           Installation   Cable         Drown, black, blue           Cable identification         613           Cable identification         613           Cable identification         613           Cable identificate         cURus           Amount stranding         1           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           Cable weigth         34,1 g/m           Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer diameter (jacket)         4.6 mm           Tolerance outer diameter (sheath)         ± 5 %           Mat		
Important installation notes           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endingered by excessive bending forces.           Installation   Cable         brown, black, blue           Cable identification         613           Cable / Type         1           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           Cable weigth         34,1 g/m           Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom trom ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer diameter (jacket)         4.6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wre insulation         PVC           Amount stranding         1.25 mm           Outer diameter (sheath)         ± 5 %           Tolerance outer diameter (sheath)         ± 5 %           Shore hardness wire insulation		
Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Installation   Cable         Vertex classive bending forces.           Installation   Cable         brown, black, blue           Cable identification         613           Cable Identification         613           Cable Identification         black           Type of Certificate         cUPus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           Cable weigth         34.1 g/m           Material jacket         PVC           Stranding         3 stras twisted           Wrec         Store Arrangement         PVC           Store hardness jacket         85 ± 5 Shore A         Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (sketh)         ± 5 %         Gale         Gale         Gale           Outer diameter insulation         1/25 mm         Gale         Gale         Gale           Outer diameter insulation		
Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Installation   Cable           wire arrangement         brown, black, blue           Cable identification         613           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           Cable weigth         34,1 g/m           Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         4.6 mm           Tolerance outer diameter (sheath)         ± 5 %           Maturital vire insulation         PVC           Amount wires         3           Outer diameter insulation         1.25 mm           Outer diameter insulation         45 ± 5 Shore D           Material properties wire insulation         45 ± 5 Shore D		<b>-</b>
Note on benuing radius         endangered by excessive bending forces.           Installation   Cable           wire arrangement         brown, black, blue           Cable lidentification         613           Cable Type         1           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           Cable wigh         34,1 g/m           Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         4,6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         1,25 mm           Outer diameter insulation         1,25 mm           Outer diameter insulation         1,25 mm           Outer diameter insulation         45 ± 5 Shore D           Material properties wire insulation         45 ± 5 Shore D           Material properties wire insulation         45 th 5 %           Shore hardness wire insulation         45 th 5 %           Shore hardness wire insul	Note on strain relief	
wire arrangementbrown, black, blueCable identification613Cable Type1Jacket ColorblackType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueCable weigth34,1 g/mMaterial jacketPVCShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)4,6 mmTolerance outer diameter (sheath)± 5 %Material wire insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation45 ± 5 Shore DMaterial properties wire insulation45 ± 5 Shore DMaterial properties wire insulation1,25 mmOuter diameter tolerance core insulation45 ± 5 Shore DMaterial properties wire insulation45 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freeAmount strands (wire)19Diameter of single wires0,15 mm	Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Cable identification613Cable Type1Jacket ColorblackType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueCable weigth34,1 g/mMaterial jacketPVCShore hardness jacket85 $\pm$ 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter diameter (jacket)4,6 mmTolerance outer diameter (sheath) $\pm$ 5 %Material wire insulationPVCAmount wires3Outer diameter insulation1,25 mmOuter diameter insulation $\pm$ 5 %Shore hardness wire insulation $\pm$ 5 %Material properties wire insulation $\pm$ 5 %Shore hardness wire insulation $\pm$ 5 %Material roporties wire insulation $\pm$ 5 %Shore hardness wire insulation $\pm$ 5 %Amount strands (wire)19Diameter of single wires0,15 mm	Tete of benang ladies	endangered by excessive bending forces.
Cable Type1Jacket ColorblackType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueCable weigth34,1 g/mMaterial jacketPVCShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket) $4,6$ mmTolerance outer diameter (sheath) $\pm 5 %$ Material javier3Outer diameter insulationPVCAmount wires3Outer diameter insulation1.25 mmOuter diameter tolerance core insulation $45 \pm 5$ Shore DMaterial properties wire insulation $19$ Diameter of single wires0,15 mm		endangered by excessive bending forces.
Jacket ColorblackType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueCable weigth34,1 g/mMaterial jacketPVCShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)4,6 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter tolerance core insulation± 5 %Shore hardness wire insulation45 ± 5 Shore DMaterial properties wire insulation45 ± 5 Shore DMaterial properties wire insulation90 dm achinabilityIngredient freeness wire insulation19Diameter of single wires0,15 mm	Installation   Cable	
Type of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueCable weigth34,1 g/mMaterial jacketPVCShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket) $4,6$ mmTolerance outer diameter (sheath) $\pm 5$ %Material wire insulationPVCAmount wires3Outer diameter tolerance core insulation $\pm 5$ %Shore hardness wire insulation $45 \pm 5$ Shore DMaterial properties wire insulationlead-free, cadmium-free, CFC-free, silicone-freeMaterial properties wire insulation $1,25$ mmOuter diameter tolerance core insulation $45 \pm 5$ Shore DMaterial properties wire insulationlead-free, cadmium-free, CFC-free, silicone-freeAmount strands (wire)19Diameter of single wires $0,15$ mm	Installation   Cable wire arrangement	brown, black, blue
Amount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueCable weigth34,1 g/mMaterial jacketPVCShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)4,6 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter tolerance core insulation± 5 %Shore hardness wire insulation45 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freeMaterial properties wire insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freeAmount strands (wire)19Diameter of single wires0,15 mm	Installation   Cable wire arrangement Cable identification	brown, black, blue 613
Stranding3 wires twistedwire arrangementbrown, black, blueCable weigth34,1 g/mMaterial jacketPVCShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)4,6 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter tolerance core insulation± 5 %Shore hardness wire insulation± 5 %Shore hardness wire insulation45 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freeAmount strands (wire)19Diameter of single wires0,15 mm	Installation   Cable wire arrangement Cable identification Cable Type	brown, black, blue 613 1
wire arrangementbrown, black, blueCable weigth34,1 g/mMaterial jacketPVCShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)4,6 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter tolerance core insulation± 5 %Shore hardness wire insulation± 5 %Shore hardness wire insulation45 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cAFC-free, silicone-freeMaterial properties wire insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cAFC-free, silicone-freeAmount strands (wire)19Diameter of single wires0,15 mm	Installation   Cable wire arrangement Cable identification Cable Type Jacket Color	brown, black, blue 613 1 black
Cable weigth34,1 g/mMaterial jacketPVCShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)4,6 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation45 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cEFC-free, silicone-freeAmount strands (wire)19Diameter of single wires0,15 mm	Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate	brown, black, blue 613 1 black cURus
Material jacketPVCShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)4,6 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation45 ± 5 Shore DMaterial properties wire insulation45 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freeAmount strands (wire)19Diameter of single wires0,15 mm	Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding	brown, black, blue 613 1 black cURus 1
Shore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)4.6 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter tolerance core insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation45 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freeAmount strands (wire)19Diameter of single wires0,15 mm	Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding	brown, black, blue 613 1 black cURus 1 3 wires twisted
Freedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)4,6 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation± 5 %Shore hardness wire insulation45 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freeAmount strands (wire)19Diameter of single wires0,15 mm	Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement	brown, black, blue 613 1 black cURus 1 3 wires twisted brown, black, blue
Outer-diameter (jacket)4,6 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation45 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freeAmount strands (wire)19Diameter of single wires0,15 mm	Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth	brown, black, blue 613 1 black cURus 1 3 wires twisted brown, black, blue 34,1 g/m
Tolerance outer diameter (sheath) $\pm 5 \%$ Material wire insulationPVCAmount wires3Outer diameter insulation1,25 mmOuter diameter tolerance core insulation $\pm 5 \%$ Shore hardness wire insulation $45 \pm 5$ Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freeAmount strands (wire)19Diameter of single wires0,15 mm	Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket	brown, black, blue 613 1 black cURus 1 3 wires twisted brown, black, blue 34,1 g/m PVC
Material wire insulation       PVC         Amount wires       3         Outer diameter insulation       1,25 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       45 ± 5 Shore D         Material properties wire insulation       good machinability         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, silicone-free         Amount strands (wire)       19         Diameter of single wires       0,15 mm	Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket)	brown, black, blue           613           1           black           cURus           1           3 wires twisted           brown, black, blue           34,1 g/m           PVC           85 ± 5 Shore A
Amount wires3Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation45 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freeAmount strands (wire)19Diameter of single wires0,15 mm	Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket)	brown, black, blue 613 1 black cURus 1 3 wires twisted brown, black, blue 34,1 g/m PVC 85 ± 5 Shore A lead-free, cadmium-free, CFC-free, silicone-free 4,6 mm
Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation45 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freeAmount strands (wire)19Diameter of single wires0,15 mm	Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket)	brown, black, blue 613 1 black cURus 1 3 wires twisted brown, black, blue 34,1 g/m PVC 85 ± 5 Shore A lead-free, cadmium-free, CFC-free, silicone-free 4,6 mm
Outer diameter tolerance core insulation± 5 %Shore hardness wire insulation45 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freeAmount strands (wire)19Diameter of single wires0,15 mm	Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath)	brown, black, blue           613           1           black           cURus           1           3 wires twisted           brown, black, blue           34,1 g/m           PVC           85 ± 5 Shore A           lead-free, cadmium-free, CFC-free, silicone-free           4,6 mm           ± 5 %
Shore hardness wire insulation45 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freeAmount strands (wire)19Diameter of single wires0,15 mm	Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation	brown, black, blue           613           1           black           cURus           1           3 wires twisted           brown, black, blue           34,1 g/m           PVC           85 ± 5 Shore A           lead-free, cadmium-free, CFC-free, silicone-free           4,6 mm           ± 5 %           PVC
Material properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freeAmount strands (wire)19Diameter of single wires0,15 mm	Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires	brown, black, blue           613           1           black           cURus           1           3 wires twisted           brown, black, blue           34,1 g/m           PVC           85 ± 5 Shore A           lead-free, cadmium-free, CFC-free, silicone-free           4,6 mm           ± 5 %           PVC           3
Ingredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freeAmount strands (wire)19Diameter of single wires0,15 mm	Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation	brown, black, blue           613           1           black           cURus           1           3 wires twisted           brown, black, blue           34,1 g/m           PVC           85 ± 5 Shore A           lead-free, cadmium-free, CFC-free, silicone-free           4,6 mm           ± 5 %           PVC           3
Amount strands (wire)19Diameter of single wires0,15 mm	Installation   Cablewire arrangementCable identificationCable TypeJacket ColorType of CertificateAmount strandingStrandingwire arrangementCable weigthMaterial jacketShore hardness jacketFreedom from ingredients (jacket)Outer-diameter (jacket)Tolerance outer diameter (sheath)Material wire insulationAmount wiresOuter diameter tolerance core insulation	brown, black, blue           613           1           black           cURus           1           3 wires twisted           brown, black, blue           34,1 g/m           PVC           85 ± 5 Shore A           lead-free, cadmium-free, CFC-free, silicone-free           4,6 mm           ± 5 %           PVC           3
Diameter of single wires 0,15 mm	Installation   Cable         wire arrangement         Cable identification         Cable Type         Jacket Color         Type of Certificate         Amount stranding         Stranding         wire arrangement         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)         Tolerance outer diameter (sheath)         Material wire insulation         Arnount wires         Outer diameter tolerance core insulation         Shore hardness wire insulation	brown, black, blue           613           1           black           cURus           1           3 wires twisted           brown, black, blue           34,1 g/m           PVC           85 ± 5 Shore A           lead-free, cadmium-free, CFC-free, silicone-free           4,6 mm           ± 5 %           PVC           3           1,25 mm           ± 5 %           45 ± 5 Shore D
	Installation   Cable         wire arrangement         Cable identification         Cable Type         Jacket Color         Type of Certificate         Amount stranding         Stranding         wire arrangement         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)         Tolerance outer diameter (sheath)         Material wire insulation         Amount wires         Outer diameter tolerance core insulation         Shore hardness wire insulation         Material properties wire insulation	brown, black, blue 613 1 black cURus 1 3 wires twisted brown, black, blue 34,1 g/m PVC 85 ± 5 Shore A lead-free, cadmium-free, CFC-free, silicone-free 4,6 mm ± 5 % PVC 3 1,25 mm ± 5 %
Conductor crosssection (wire) 0,34 mm <sup>2</sup>	Installation   Cable         wire arrangement         Cable identification         Cable Type         Jacket Color         Type of Certificate         Amount stranding         Stranding         wire arrangement         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)         Tolerance outer diameter (sheath)         Material wire insulation         Amount wires         Outer diameter tolerance core insulation         Shore hardness wire insulation         Material properties wire insulation	brown, black, blue           613           1           black           cURus           1           3 wires twisted           brown, black, blue           34,1 g/m           PVC           85 ± 5 Shore A           lead-free, cadmium-free, CFC-free, silicone-free           4,6 mm           ± 5 %           PVC           3           1,25 mm           ± 5 %           45 ± 5 Shore D           good machinability           lead-free, cadmium-free, CFC-free, silicone-free
	Installation   Cablewire arrangementCable identificationCable TypeJacket ColorType of CertificateAmount strandingStrandingwire arrangementCable weigthMaterial jacketShore hardness jacketFreedom from ingredients (jacket)Outer-diameter (jacket)Tolerance outer diameter (sheath)Material wire insulationAmount wiresOuter diameter tolerance core insulationShore hardness wire insulationIngredient freeness wire insulationAmount strands (wire)	brown, black, blue           613           1           black           cURus           1           3 wires twisted           brown, black, blue           34,1 g/m           PVC           85 ± 5 Shore A           lead-free, cadmium-free, CFC-free, silicone-free           4,6 mm           ± 5 %           PVC           3           1,25 mm           ± 5 %           45 ± 5 Shore D           good machinability           lead-free, cadmium-free, CFC-free, silicone-free

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-22



Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	Strand class 5
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	6 A
Electrical resistance line constant wire	57 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-5 °C
Operating temperature max. (dynamic)	0° C
UV resistance	DIN EN ISO 4892-2 A
Flame resistance	IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing   DIN EN 60811-404
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter

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