

## MVP12, 8XM12, 4POLE, PLUGGABLE CABLE

5.0m PUR/PVC 16x0,34+5x0,75, w/o LED's

8-way, 5-pole PUR/PVC 5.0 m

Potential separation as option

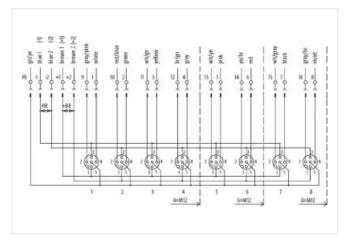
Further cable lengths on request.

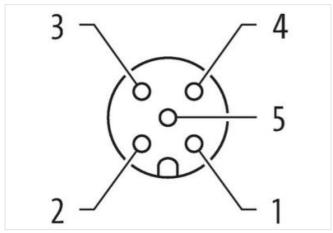
Plastic housings with good resistance against chemicals and oils.

## **Link to Product**

## Illustration







Product may differ from Image



Commercial data	
ECLASS-6.0	27279219
ECLASS-6.1	27279219
ECLASS-7.0	27279219



stay connected

ECLASS-8.0	27279219	
ECLASS-9.0	27440108	
ECLASS-10.1	27440108	
ECLASS-11.1	27440108	
ECLASS-12.0	27440108	
ETIM-5.0	EC002585	
customs tariff number	85369010	
GTIN	4048879061636	
Packaging unit	1	
Electrical data   Supply		
Operating voltage DC	24 V	
Current operating per contact max.	4 A	
Total current at 1 time current feed-in max.	8 A	
Total current at 2 times current feed-in max.	16 A	
Industrial communication		
Number of signals per port	2	
Installation   Connection		
Mounting set	M12 x 1	
-	WILA I	
Device protection   Electrical		
Degree of protection (EN IEC 60529)	IP67	
Additional condition protection degree	screwed, mounted	
Device protection   Media		
Flame resistance	flame retardant	
Mechanical data   Material data		
Material housing	Plastic	
Mechanical data   Mounting data		
Mounting method	Schraubgewinde	
Height	149,2 mm	
Width	50,2 mm	
Depth	17,2 mm	
Environmental characteristics   Climatic		
Operating temperature min.	-20 °C	
Operating temperature max.	80 °C	
<u> </u>		
Installation   Cable		
Cable identification	374	
Cable Type	2	
STOOW style jacket  Jacket Color	Hybrid, Signal, Power	
	gray cURus	
Type of Certificate  Amount stranding	1	
Stranding	4 wires twisted	
Amount stranding (type 2)	1	
Stranding (type 2)	9 wires around Stranding combination twisted	
wire arrangement	gray-pink, white, red-blue, green, (green-yellow, brown 1, blue 1, brown 2, blue 2, green-white, yellow, brown-green, gray)	
Cable weigth	140,94 g/m	
Material jacket	PUR	
Shore hardness jacket	87 ± 5 Shore A	
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free	
	9,2 mm	
Outer-diameter (jacket)	5,2 mm	



stay connected

Description	Material inner jacket	PVC
Material viview involution         PVC           Amount viview         8           Outer diameter involution         1,3 mm           Outer diameter involution         1,5 % shore D           Material properties wire involution         43 ± 5 % shore D           Material properties wire involution         20 ± 5 % shore D           Material properties wire involution         19 mg 25 °C   horizontal           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Amount stands (wive)         19           Demander of single wires         0,15 mm           Conductor type (wive)         5 m @ 25 °C   horizontal           Traver laped (C-track)         6 m @ 25 °C   horizontal           Material conductor vives         5 m @ 25 °C   horizontal           Material conductor vives         5 m @ 25 °C   horizontal           Material conductor vives         5 m @ 25 °C   horizontal           Material conductor vives         5 m @ 25 °C   horizontal           Material conductor vives         5 m @ 25 °C   horizontal           Material conductor vives         5 m @ 25 °C   horizontal           Material conductor vives invalidation (Power)         45 °C           Material conductor vive invalidation (Power)         45 °C           Material vive invalidation (Power)         45 °C	<u> </u>	
Amount wires  Outer dismeter insulation  Outer dismeter blemance one insulation  A 5 %  Shore hardness were insulation  Outer dismeter blemance one insulation  A 5 %  Shore hardness were insulation  Outer dismeter were insulation  Ingredient fremess were insulation  Ingredient fremess were insulation  Outer dismeter of single wires  Outer dismeter were insulation (Power)  Outer dismeters were (Power)  Outer dismeters of (Power)  Outer dismeters were (Power)  Outer dismeters		
Outer diameter insulation         1,3 mm           Outer diameter (oterance core insulation         43 ± 5 Shore ID           Material properties wide insulation         good machinability           Impredient freeness wire insulation         load minute (acadimum five, CPC free, silicone free)           Treversing distance (C-track)         5 m @ 25 °C   horizontal           Amount strands (wire)         0,15 mm           Conductor crosssection (wire)         0,34 mm²           Conductor crosssection (wire)         0,34 mm²           Material conductor vive         Strand class S           Conductor type (wire)         Strand class S           Traves speed (C-track)         5           Material wire insulation (Power)         1,8 mm           Total properties wire insulation (Power)         1,8 mm           Total properties wire insulation (Power)         1,8 mm           Total properties wire insulation (Power)         45 %           Material properties wire insulation (Power)         45 %           Material properties wire insulation (Power)         45 %           Printing potour wire insulation (Power)         45 %           Material properties wire insulation (Power)         45 %           Printing potour wire insulation (Power)         46 %           Material properties wire insulation (Power) </td <td></td> <td></td>		
Shore hardness wite insulation   4.5 %		
Shore hardness wire insulation Material properties wire insulation Ingredent feeness wire insulation Ingredent feeness wire insul		
Material properties wire insulation   sual free, cadmium free, CFC-free, allicone-free		
Ingredient freeness wire insulation   Ingredient freeness wire insul		
Traversing distance (C track)		,
Amount strands (vire)   19   19   19   19   19   19   19   1		
Diameter of single wires   0,15 mm		
Conductor crossaction (wire)         0.34 mm²           Material conductor were         Stranded copper wire, bare           Conductor type (wire)         Stranded case 5           Travel speed (C-track)         5           Material wire insulation (Power)         PVC           Culter diameter wire insulation (Power)         1,8 mm           Tolerance outer diameter wire insulation (Power)         45 %           Shore hardness wire insulation (Power)         4325 Shore D           Material properties wire insulation (Power)         4325 Shore D           Material properties wire insulation (Power)         42           Printing cobur wire insulation (Power)         42           Printing cobur wire insulation (Power)         42           Diameter of single wires (Power)         42           Diameter of single wires (Power)         0.15 mm           Wire conductor responded for (Power)         5 randed copper wire, bare           Max. rated voltage (conductor - ground)         300 V           Max. rated voltage (conductor - ground)         300 V           Current load capacity (standard)         to DIN VDE 0298 4           Current load capacity wire, wire         4 A           Electrical resistance osating wire (Power)         25 QMm @20 °C           Max. apperating temperature (static)         3	. ,	· · · · · · · · · · · · · · · · · · ·
Material conductor wire   Stranded copper wire, bare		
Conductor type (wire)         Strand class 5           Travel speed (C+track)         5           Material wire insulation (Power)         PVC           Outer diameter wire insulation (Power)         1.8 mm           Tolerance outer diameter wire insulation (Power)         455 Shore D           Shore hardness wire insulation (Power)         455 Shore D           Material properties wire insulation (Power)         good machinability           Ingredient freeness wire insulation (Power)         Med Tree, cadmium-free, CFC-free, silicone-free           Printing colour wire insulation (Power)         White (solation blue), white (solation brown)           Amount strands wire (Power)         42           Plameter of single wires (Power)         0,15 mm           Wire conductor vires (Power)         0,75 mm²           Wire conductor vires (Power)         30 75 mm²           Max. rated voltage (conductor - conductor)         300 V           Max. rated voltage (conductor - conductor)         300 V           Loop resistance         7,8 A           Current load capacity min. wire         4 A           Electrical resistance (wire - wire)         25 N/w @ 20 °C           Act withstand voltage (wire - wire)         25 N/w @ 20 °C           Power frequency wirtstand voltage (wire - wire)         24 N/w @ 60 s		·
Taval speed (C-track)   5		
Material wire insulation (Power)         PVC           Outer diameter wire insulation (Power)         1.8 mm           Tolerance outer diameter wire insulation (Power)         ±5 %           Tolerance outer diameter wire insulation (Power)         ±5 %           Material properties wire insulation (Power)         900 machinability           Ingredient freeness wire insulation (Power)         lead-free, cadmium-free, CFC-free, silicone-free           Printing colors wire insulation (Power)         42           Diameter of single wires (Power)         42           Diameter of single wires (Power)         0.15 mm           Wire conductor vires section (Power)         0.75 mm²           Material conductor wire (Power)         Stranded copper wire, bare           Conductor type wire (Power)         Stranded copper wire, bare           Max. rated voltage (conductor - conductor)         300 V           Max. rated voltage (conductor - conductor)         300 V           Current load capacity (standard)         to DIN VE 0298-4           Current load capacity (standard)         to DIN VE 0298-4           Current load capacity (standard)         to DIN VE 0298-4           Current load capacity (standard)         20 DIX mg 20 °C           Cleartical resistance coaling wire (Power)         25 Nim @ 20 °C           Ad withstand voltage (wire virea)		
Outer diameter wire insulation (Power)         1,8 mm           Tolerance outer diameter wire insulation (Power)         25 %           Shore hardness wire insulation (Power)         43.55 Shore D           Material properties wire insulation (Power)         good machinability           Ingredient freeness wire insulation (Power)         white (isolation blue), white (isolation brown)           Amount strands wire (Power)         42           Diameter of single wires (Power)         0,75 mm²           Wire conductor vire (Power)         5 franded copper wire, bare           Conductor type wire (Power)         5 franded copper wire, bare           Max. rated voltage (conductor - conductor)         300 V           Max. rated voltage (conductor - conductor)         300 V           Max. rated voltage (conductor - ground)         300 V           Loop resistance         7,8 A           Current load capacity min. wire         4 A           Electrical resistance line constant wire         57 Q/m @ 20 °C           AC withstand voltage (wire - wire)         28 Q/m @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           Min. operating temperature (fixed)         80 °C           Operating temperature (fixed)         80 °C		
Tolerance outer diameter wire insulation   2.5 %	, ,	
(Power)   55 %		1,8 mm
Material properties wire insulation (Power)         good machinability           Ingredient freeness wire insulation (Power)         lead-free, cadmium-free, CFC-free, silicone-free           Printing colour wire insulation (Power)         white (isolation blue), white (isolation brown)           Amount strands wire (Power)         42           Diameter of single wires (Power)         0,15 mm           Wire conductor cross section (Power)         0,75 mm²           Material conductor wire (Power)         Stranded copper wire, bare           Conductor type wire (Power)         strand class 6           Max. rated voltage (conductor - conductor)         300 V           Max. rated voltage (conductor - ground)         300 V           Max. rated voltage (conductor - ground)         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4 A           Electrical resistance line constant wire         57 Qkm @ 20 °C           Electrical resistance with stand voltage (wire - vire)         2 kV @ 60 s           Power frequency withstand voltage (wire - yacket)         2 kV @ 60 s           Min. operating temperature (static)         -30 °C           Max. operating temperature (static)         -5 °C           Operating temperature min. (dynamic)         -5 °C           Operating t	(Power)	±5 %
Ingredient freeness wire insulation (Power)   lead-free, cadmium-free, CFC-free, silicone-free	Shore hardness wire insulation (Power)	43±5 Shore D
Printing colour wire insulation (Power)         white (isolation blue), white (isolation brown)           Amount strands wire (Power)         42           Diameter of single wires (Power)         0,15 mm           Material conductor wire (Power)         575 mm²           Material conductor wire (Power)         Stranded copper wire, bare           Conductor type wire (Power)         strand class 6           Max. rated voltage (conductor - conductor)         300 V           Max. rated voltage (conductor - ground)         300 V           Loop resistance         7,8 A           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)         4 A           Electrical resistance line constant wire         57 Ω/km @ 20 °C           Electrical resistance wire (Power)         2 kV @ 60 s           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           Max. operating temperature (static)         30 °C           Max. operating temperature (static)         30 °C           Operating temperature (mix. (dynamic)         70 °C           Operating temp	Material properties wire insulation (Power)	good machinability
Amount strands wire (Power)         42           Diameter of single wires (Power)         0,15 mm           Wire conductor cross section (Power)         0,75 mm²           Max rated voltage (conductor - conductor)         300 V           Max. rated voltage (conductor - ground)         300 V           Max. rated voltage (conductor - ground)         300 V           Loop resistance         7,8 A           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4 A           Electrical resistance line constant wire         57 Ω/km @ 20 °C           Electrical resistance coating wire (Power)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           Min. operating temperature (stact)         30 °C           Max. operating temperature max. (dynamic)         -5 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Gli resistance         Good, application-related testing           Oil resistance         Good, application-related testing           Bending radius (fixed)	Ingredient freeness wire insulation (Power)	lead-free, cadmium-free, CFC-free, silicone-free
Diameter of single wires (Power)         0,15 mm           Wire conductor cross section (Power)         0,75 mm²           Material conductor wire (Power)         Stranded copper wire, bare           Conductor type wire (Power)         strand class 6           Max. rated voltage (conductor - conductor)         300 V           Loop resistance         7,8 A           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4 A           Electrical resistance line constant wire         57 Ω/km @ 20 °C           Electrical resistance voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           Min. operating temperature (static)         30 °C           Max. operating temperature (static)         80 °C           Operating temperature max. (dynamic)         -5 °C           Operating temperature max. (dynamic)         -5 °C           Operating tersistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Gli resistance         Good, application-related testing           Oil resistance         Good, application-related testing           Bend	Printing colour wire insulation (Power)	white (isolation blue), white (isolation brown)
Wire conductor cross section (Power)         0.75 mm²           Material conductor wire (Power)         Stranded copper wire, bare           Conductor type wire (Power)         strand class 6           Max. rated voltage (conductor - conductor)         300 V           Max. rated voltage (conductor - ground)         300 V           Loop resistance         7.8 A           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4 A           Electrical resistance line constant wire         57 Ω/km @ 20 °C           Electrical resistance coating wire (Power)         26 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - ajacket)         2 kV @ 60 s           Min. operating temperature (fixed)         80 °C           Operating temperature (fixed)         80 °C           Operating temperature max. (dynamic)         75 °C           Chemical resistance         UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         Good, application-related testing           Bending radius (fixed)         5 x Outer diameter	Amount strands wire (Power)	42
Material conductor wire (Power)         Stranded copper wire, bare           Conductor type wire (Power)         strand class 6           Max. rated voltage (conductor - conductor)         300 V           Max. rated voltage (conductor - ground)         300 V           Loop resistance         7,8 A           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4 A           Electrical resistance line constant wire         57 Ω/km @ 20 °C           Electrical resistance coating wire (Power)         26 Ω/km @20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         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)         70 °C           Flame resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         Good, application-related testing           Bending radius (fixed)         5 x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           Travel speed (C-track)<	Diameter of single wires (Power)	0,15 mm
Conductor type wire (Power) strand class 6  Max. rated voltage (conductor - conductor) 300 V  Max. rated voltage (conductor - ground) 300 V  Loop resistance 7,8 A  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4 A  Electrical resistance line constant wire 57 Ω/km @ 20 °C  Electrical resistance coating wire (Power) 26 Ω/km @ 20 °C  Electrical resistance coating wire (Power) 26 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2 kV @ 60 s  Power frequency withstand voltage (wire - iacket) 30 °C  Max. operating temperature (static) 30 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -5 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Bending radius (fixed) 5 × Outer diameter  Bending radius (fixed) 10 × Outer diameter  Fravel speed (C-track) 2 Mio. @ 25 °C  Connection type 2  Family construction form free cable end  No. of poles 21	Wire conductor cross section (Power)	0,75 mm²
Max. rated voltage (conductor - conductor)         300 V           Max. rated voltage (conductor - ground)         300 V           Loop resistance         7,8 A           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4 A           Electrical resistance line constant wire         57 Ω/km @ 20 °C           Electrical resistand voltage (wire - wire)         26 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - iacket)         -30 °C           Min. operating temperature (static)         -30 °C           Max. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         -5 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2           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 Cuter diameter           Bending radius (dynamic)         10 x Outer diameter           Travel speed (C-track)         2 Mio. @ 25 °C <t< td=""><td>Material conductor wire (Power)</td><td>Stranded copper wire, bare</td></t<>	Material conductor wire (Power)	Stranded copper wire, bare
Max. rated voltage (conductor - ground)     300 V       Loop resistance     7,8 A       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity min. wire     4 A       Electrical resistance line constant wire     57 Ω/km @ 20 °C       Electrical resistance coating wire (Power)     26 Ω/km @ 20 °C       AC withstand voltage (wire - wire)     2 kV @ 60 s       Power frequency withstand voltage (wire - glacket)     2 kV @ 60 s       Min. operating temperature (static)     -30 °C       Max. operating temperature (static)     -30 °C       Operating temperature min. (dynamic)     -5 °C       Operating temperature max. (dynamic)     70 °C       Flame resistance     UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2       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 (fixed)     5 x Outer diameter       Travel speed (C-track)     2 Mio. @ 25 °C       Connection type 2       Family construction form     free cable end       No. of poles	Conductor type wire (Power)	strand class 6
Loop resistance 7,8 A  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4 A  Electrical resistance line constant wire 57 Ω/km @ 20 °C  Electrical resistance coating wire (Power) 26 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2 kV @ 60 s  Power frequency withstand voltage (wire - ack of a ck o	Max. rated voltage (conductor - conductor)	300 V
Current load capacity (standard)  Current load capacity min. wire  4 A  Electrical resistance line constant wire  57 \( \text{ \text{\$\text{\$N\$}}} \text{ @ 0 \color C} \)  Electrical resistance coating wire (Power)  26 \(  \text{\$\tex	Max. rated voltage (conductor - ground)	300 V
Current load capacity min. wire 4 A  Electrical resistance line constant wire 57 Ω/km @ 20 °C  Electrical resistance coating wire (Power) 26 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2 kV @ 60 s  Power frequency withstand voltage (wire - acket) 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) 70 °C  Flame resistance UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  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  Travel speed (C-track) 2 Mio. @ 25 °C  Connection type 2  Family construction form free cable end  No. of poles	Loop resistance	7,8 A
Electrical resistance line constant wire 57 Ω/km @ 20 °C  Electrical resistance coating wire (Power) 26 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) 70 °C  Flame resistance UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  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  Travel speed (C-track) 2 Mio. @ 25 °C  Connection type 2  Family construction form free cable end  No. of poles 21	Current load capacity (standard)	to DIN VDE 0298-4
Electrical resistance coating wire (Power) 26 \( \textit{ D/km @20 \circ} \)  AC withstand voltage (wire - wire) 2 kV \( \textit{ 60 s} \)  Power frequency withstand voltage (wire - jacket) -30 \circ C  Max. operating temperature (fixed) 80 \circ C  Operating temperature min. (dynamic) -5 \circ C  Operating temperature max. (dynamic) 70 \circ C  Flame resistance UL 1581 \( \frac{1}{3} \) 1090   UL 1581 \( \frac{1}{3} \) 1100 FT2   IEC 60332-2-2  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  Travel speed (C-track) 2 Mio. @ 25 \circ C  Connection type 2  Family construction form free cable end  No. of poles 21	Current load capacity min. wire	4 A
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) 70 °C  Flame resistance UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  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  Travel speed (C-track) 2 Mio. @ 25 °C  Connection type 2  Family construction form free cable end  No. of poles 21	Electrical resistance line constant wire	57 Ω/km @ 20 °C
Power frequency withstand voltage (wire - jacket)  Min. operating temperature (static)  As °C  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature min. (dynamic)  To °C  Flame resistance  UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  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  Travel speed (C-track)  2 Mio. @ 25 °C  Connection type 2  Family construction form  free cable end  No. of poles	Electrical resistance coating wire (Power)	26 Ω/km @20 °C
Jacket)  Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  To °C  Flame resistance  UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  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  Travel speed (C-track)  2 Mio. @ 25 °C  Connection type 2  Family construction form  free cable end  No. of poles	AC withstand voltage (wire - wire)	2 kV @ 60 s
Max. operating temperature (fixed)  Operating temperature min. (dynamic)  -5 °C  Operating temperature max. (dynamic)  70 °C  Flame resistance  UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil 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  Travel speed (C-track)  2 Mio. @ 25 °C  Connection type 2  Family construction form  free cable end  No. of poles  21	. ,	2 kV @ 60 s
Operating temperature min. (dynamic) Operating temperature max. (dynamic) To °C Flame resistance UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2 Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil 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  Travel speed (C-track) 2 Mio. @ 25 °C  Connection type 2  Family construction form free cable end  No. of poles 21	Min. operating temperature (static)	-30 °C
Operating temperature max. (dynamic)  Flame resistance  UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  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  Travel speed (C-track)  2 Mio. @ 25 °C  Connection type 2  Family construction form  free cable end  No. of poles  21	Max. operating temperature (fixed)	80 °C
Operating temperature max. (dynamic) 70 °C  Flame resistance UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  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  Travel speed (C-track) 2 Mio. @ 25 °C  Connection type 2  Family construction form free cable end  No. of poles 21	Operating temperature min. (dynamic)	-5 °C
Flame resistance UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil 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  Travel speed (C-track) 2 Mio. @ 25 °C  Connection type 2  Family construction form free cable end  No. of poles 21	Operating temperature max. (dynamic)	
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 Travel speed (C-track) 2 Mio. @ 25 °C  Connection type 2  Family construction form free cable end No. of poles 21		
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  Travel speed (C-track) 2 Mio. @ 25 °C  Connection type 2  Family construction form free cable end  No. of poles 21		
Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 2 Mio. @ 25 °C  Connection type 2  Family construction form free cable end  No. of poles 21	Gasoline resistance	
Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 2 Mio. @ 25 °C  Connection type 2  Family construction form free cable end  No. of poles 21		
Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 2 Mio. @ 25 °C  Connection type 2  Family construction form free cable end  No. of poles 21		
Travel speed (C-track) 2 Mio. @ 25 °C  Connection type 2  Family construction form free cable end  No. of poles 21		
Family construction form free cable end  No. of poles 21		
No. of poles 21	Connection type 2	
•	Family construction form	free cable end
Family construction form M12	No. of poles	21
	Family construction form	M12



Gender	female	
Color contact carrier	black	
Coding	A	
No. of poles	5	
PIN 1	+	
PIN 2	NC S 2	
PIN 3	-	
PIN 4	NO S 1	
PIN 5	PE	