

Motion & Stationary  
**INDUSTRIAL CABLE**

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## Welcome to Becker Robotic, where innovation meets reliability!

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With over 30 years of experience, headquartered in Germany and supported by a strong global presence, we provide advanced technology solutions for modern industrial applications. Our portfolio includes energy supply systems, robotic equipment, engineering services, motion and stationary cables, and high-quality industrial equipment.

Through our worldwide network, we deliver reliable, high-quality solutions to industrial customers across the globe. From product development and engineering design to manufacturing, project support, installation, and system optimization, we offer end-to-end services that enhance performance and maximize uptime in automated production environments.

Partner with us to drive innovation and shape the future of automation.

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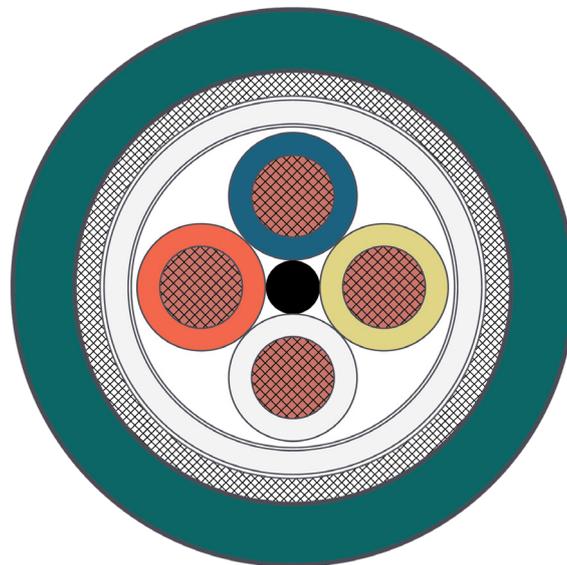
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Article no.: 4.042.021  
Item.: Profinet CU 2x2xAWG22

## Illustration



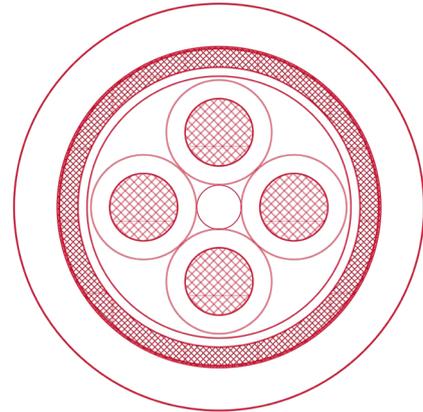
### Technical Specifications

Peak Operating Voltage	Vde	max. 350 V
Voltage	UI	300 V
Test Voltage	Wire/Wire	1500 V
	Wire/Shielding	1200 V
Temperature Range	Fixed	-40°C/+90°C
	Flexible	-30°C/+90°C
min. Bending Radius	Fixed	5 x cable diameter
	Flexible	10 x cable diameter
Torsion	+/- 180°/m	



### Dimensions

Outer-Ø	7.0 mm
Weight	ca. 62 kg/km
Copper Content	36.3 kg/km
DC resistance at 20°C	max. 58.0 Ω/km

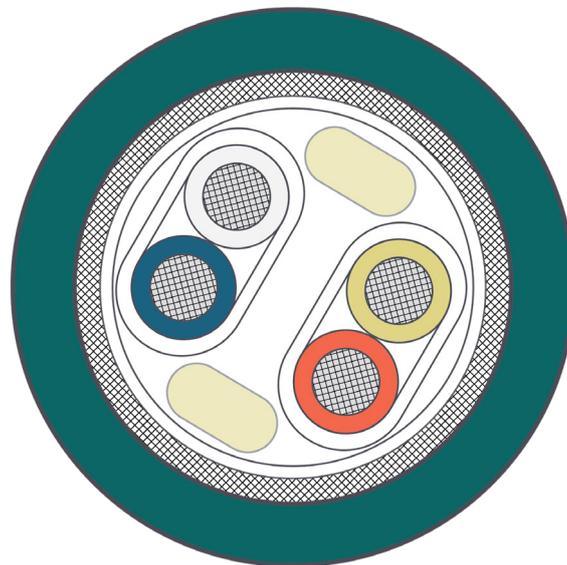


### Design

Wire Conductor	Finest Tinned CU Stranded Wire
Wire Insulation	Sabix 151
Wire Colour	Blue, Yellow, White, Orange
Stranding	Stranded in Position
Winding	Net Tape, Aluminium Foil
Shielding	Braiding Made of Tinned CU Round Wires
Winding	Fleece
Outer Sheath	PUR
Sheath Colour	Green similar to RAL 6018

Article no.: 4.042.021-R  
Item.: Profinet CU type R 2x2xAWG22

## Illustration



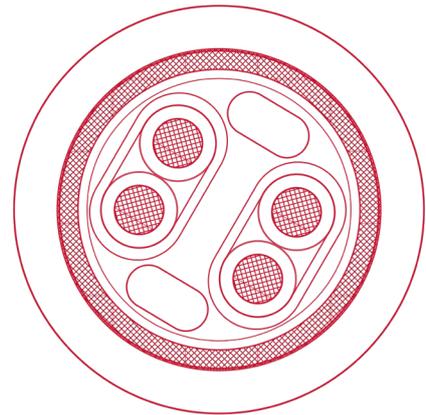
### Technical Specifications

Peak Operating Voltage	UL	300V
Testing Voltage	Wire/Wire	2000 V
	Wire/Shielding	2000 V
Temperature Range	Fixed	-40°C/+70°C
	Flexible	-30°C/+70°C
min. Bending Radius	Fixed	3 x cable diameter
	Flexible	10 x cable diameter
Torsion	+/- 180°/m	



### Dimensions

Outer-Ø	7.8 ± 0.2 mm
Weight	ca. 68 kg/km
Copper Content	36.7 kg/km
DC resistance at 20°C	max. 58.8 Ω/km



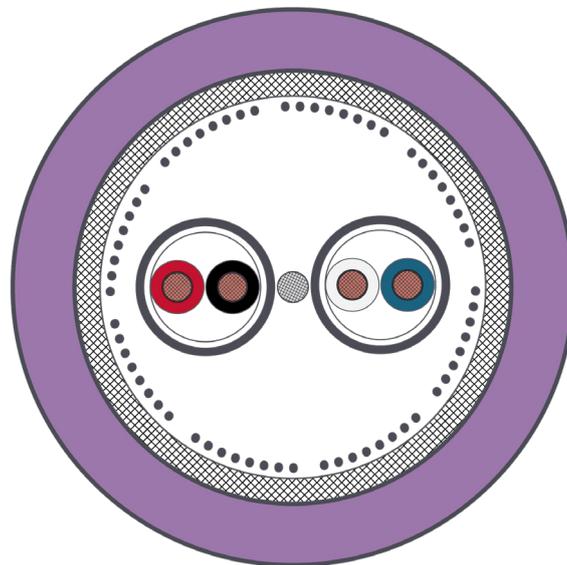
### Design

Wire Conductor	Copper, Bare, Fine Stranded
Wire Isolation	PE
Wire Colour	White, Blue, Yellow, Orange
Stranding	Cores Twisted into Optimised Pairs: WH/BU, YE/OG, Fleece Wrapped
Stranding	Pairs twisted in optimised position, Filler in the Gussets
Shielding	Braid of Tinned Copper Wires, Opt. Coverage ≥85% Wrapped with Fleece
Outer Sheath	PUR, Flame-Retardant, Halogen-Free, Satin Matt Surface
Sheath Colour	Green similar to RAL 6018

Article no.: 4.026.040

Item.: DeviceNet 1x2xAWG24 + 1x2xAWG22

## Illustration

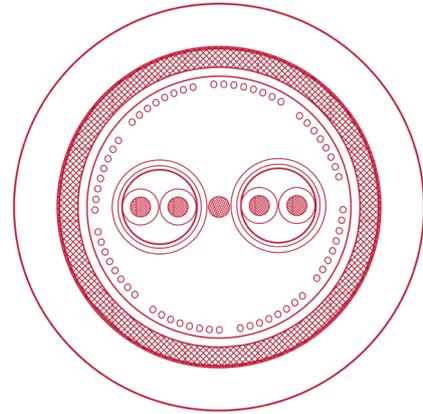


### Technical Specifications

Peak Operating Voltage	VDE	max. 300 V
Voltage	UL	300 V
Testing Voltage	Wire/Wire	2000 V
	Wire/Shield	2000 V
Temperature Range	Fixed	-40°C/+80°C
	Flexible	-30°C/+80°C
min. Bending Radius	Fixed	7.5 x cable diameter
	Flexible	15 x cable diameter



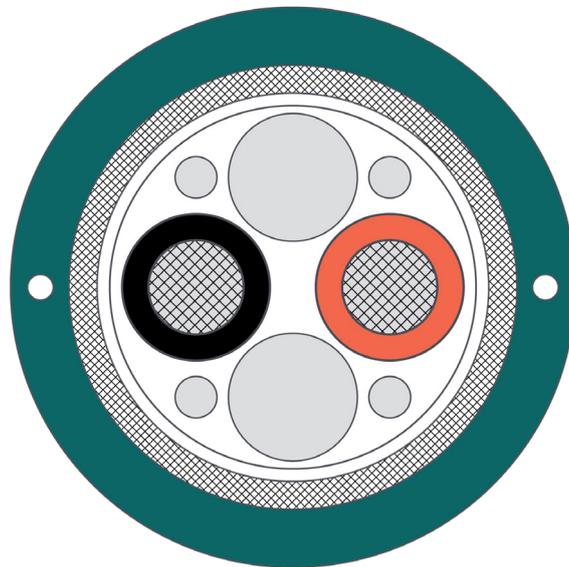
Dimensions	
Outer-Ø	6.9 mm
Weight	ca. 67.7 kg/km
Copper Content	33.4 kg/km
DC resistance at 20°C	max. 180.0 Ω/km



Design	
Wire Conductor	Fine-Stranded Tinned Copper Strand
Wire Isolation	PE
Wire Pairs	Paired, Wrapped in Aluminum Foil
Wire Colour	Light Blue + White, Red + Black
Stranding	Stranded in Layer
Shielding	Braided Tinned Copper Round Wires + Tinned Copper Stranded Wire AWG24
Winding	Fleece
Outer Sheath	PUR
Colour	Violet similar to RAL 4001

Article no.: 4.003.904-P  
Item.: Profinet LWL 2x POF

## Illustration

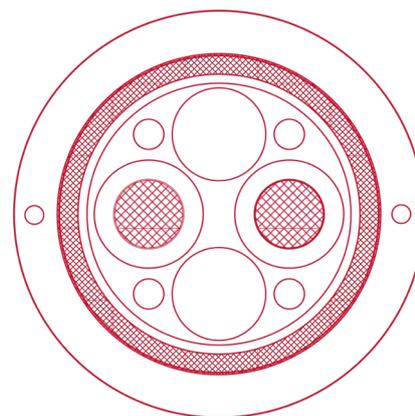


### Technical Specifications

Temperature Range	In operation	-20°C/+70°C
	When storing	-40°C/+80°C
min. Bending Radius	Flexible	10 x cable diameter
Attenuation at 650 nm *	≤180 dB/km (monochromatic)	
	≤275 dB/km (LED)	
Bandwidth-length Product	40 MHz x 100 m at 650 nm with RML	
Torsion	+/- 360°	



Dimensions	
Outer-Ø	8 mm +/-0.5mm
Weight	ca. 51 kg/km



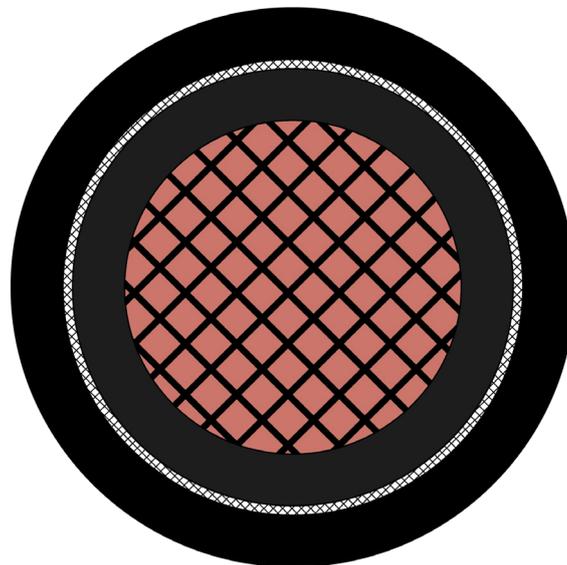
Design	
Wire Conductor	PMMA, 980/1000µm
Wire Isolation	PA
Wire Colour	Orange with Black arrow print and Black
Stranding	2 Individual Elements twisted together with 2 Strain Relief Elements
Winding	Fleece
Outer Sheath	PUR
Colour	Green

Article no.: 4.001.035

Item.: Primary Single Conductor Cable 1x35mm<sup>2</sup>

## Illustration

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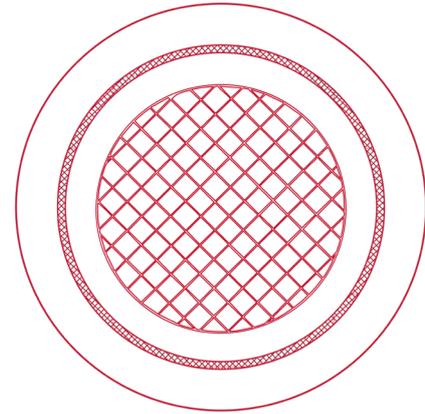
### Technical Specifications

Peak Operating Voltage	U0/U	750 V
	UL/cULus	600 V
Test Voltage		2000 VAV
Temperature Range	Fixed	-50°C/+90°C
	Flexible	-40°C/+90°C
	UL	up to 80°C
min. Bending Radius	Fixed	5 x cable diameter
	Flexible	7.5 x cable diameter
Torsion	+/- 180°/m	



### Dimensions

Outer-Ø	max. 13.3 ± 0.3 mm
Weight	ca. 406 kg/km
Copper Content	336.0 kg/km
DC resistance at 20°C	max. 0.554 Ω/km



### Design

Wire Conductor	Copper, Bare, Finest Strands, Class 6 According to EN 60228, 4410 X 0.10 Mm, Ø Ca. 8.8 Mm
Winding	Fleece
Wire Isolation	SABIX® Thermoplastic material on Polyolefin Basis Wall Thickness Nom. 0.80mm, Ø approx. 10.5 mm
Wire Colour	Black
Winding	Fleece
Outer Sheath	PUR, Thermoplastic based on TPE-U. Meets Tmpu acc. to DIN VDE 0282 part 10. Wall Thickness Nom. 1.35 mm, Ø ca. 13.3mm ± 0.3 mm
Sheath Colour	Deep Black similar to RAL 9005

### Properties & approvals

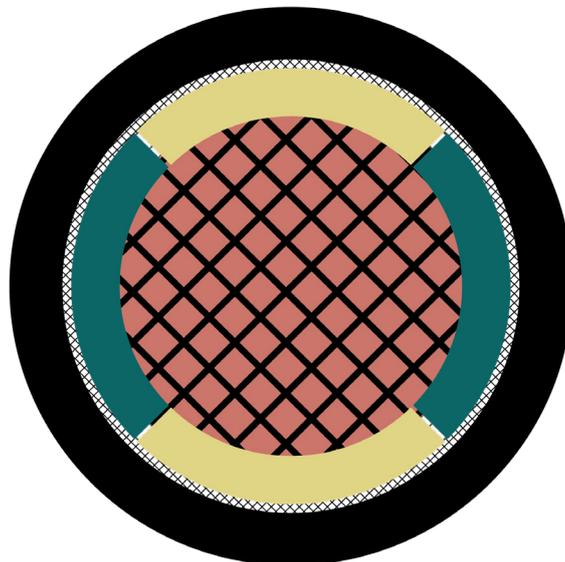
UV resistance	High
Oil resistance	Oil-Resistant (Following DIN EN 50363-10-2), Class 3
Flame resistance	According To IEC 60332-1-2, FT1, VW-1
Silicon-free	Free from silicon which can affect paint adhesion (Following PV 3.10.7 - Status 1992)
Halogen-free	Following DIN EN 60754
UL verified	Yes
UL/CSA AWM	Yes
NFPA 79	Complies to Electrical Standard for Industrial Machinery NFPA 79 Section 12.9

Article no.: 4.001.035-PE

Item.: Primary Single Conductor Cable, with PE 1x35mm<sup>2</sup>

## Illustration

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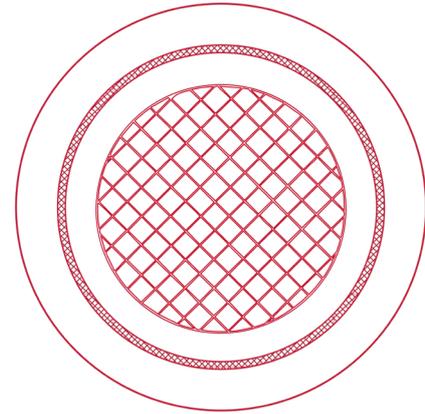
### Technical Specifications

Peak Operating Voltage		750V
Test Voltage		2000 VAV
Temperature Range	Fixed	-50°C/+90°C
	Flexible	-40°C/+90°C
min. Bending Radius	Fixed	5 x cable diameter
	Flexible	7.5 x cable diameter
Torsion		+/- 180°/m



### Dimensions

Outer-Ø	max. 13.3 mm
Weight	ca. 404 kg/km
Copper Content	336.0 kg/km
DC resistance at 20°C	max. 0.554 Ω/km



### Design

Wire Conductor	Copper, Bare, Finest Strands, Class 6 acc. to EN 60228, 3192 x 0.10 mm, Ø ca. 8.8 mm
Wire Isolation	PUR
Wire Colour	GN/YE
Winding	Fleece
Outer Sheath	PUR
Sheath Colour	Deep Black similar to RAL 9005

### Properties and approvals

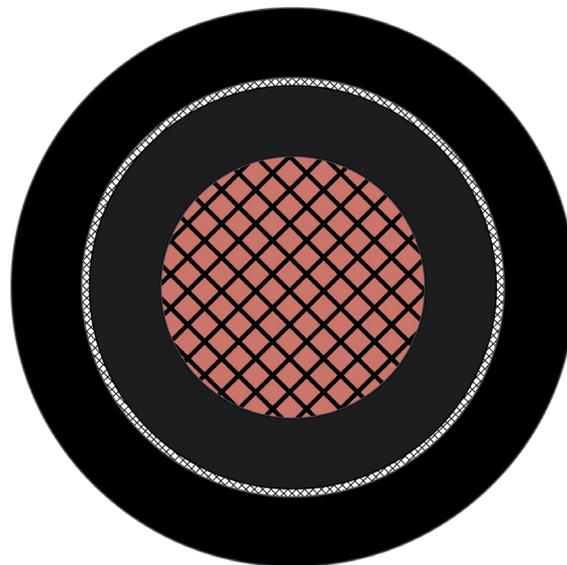
UV resistance	High
Oil resistance	Oil-Resistant (following DIN EN 50363-10-2), Class 3
Flame resistance	According to IEC 60332-1-2, FT1, VW-1
Silicon-free	Free from silicon which can affect paint adhesion (Following PV 3.10.7 - Status 1992)
Halogen-free	Following DIN EN 60754
NFPA 79	Complies to Electrical Standard for Industrial Machinery NFPA 79 Section 12.9

Article no.: 4.001.025

Item.: Primary Single Conductor Cable 1x25mm<sup>2</sup>

## Illustration

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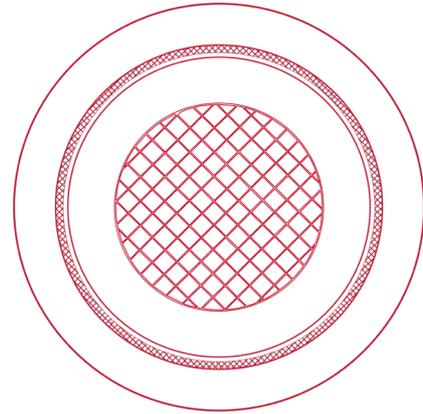
### Technical Specifications

Peak Operating Voltage	U0/U	750 V
	UL/cULus	600 V
Test Voltage		2000 VAV
Temperature Range	Fixed	-40°C/+90°C
	Flexible	-50°C/+90°C
	UL	up to 80°C
min. Bending Radius	Fixed	5 x cable diameter
	Flexible	7.5 x cable diameter
Torsion	+/- 180°/m	



### Dimensions

Outer-Ø	max. 11.1 mm
Weight	ca. 287 kg/km
Copper Content	240.0 kg/km
DC resistance at 20°C	max. 0.78 Ω/km



### Design

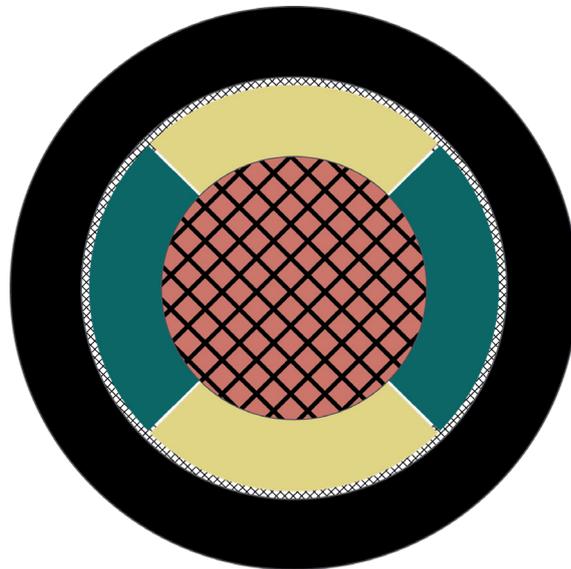
Wire Conductor	Copper, Bare, Extra-Fine Stranded, Class 6 to EN 60228, 3192 x 0.10 mm, Ø approx. 7.1 mm
Wire Isolation	Fleece Wrapped Overlapping
Identification	SABIX® Thermoplastic Polyolefin-Based Plastic, Wall Thickness Nom.0.77mm, Ø approx. 8.74 mm
Stranding	Black
Winding	Fleece Wrapped Overlapping
Outer Sheath	PUR, Thermoplastic on the basis of TPE-U.
	Complies with TMPU acc. to DIN VDE 0282 Part 10
	Wall Thickness Nom. 1.15 mm, Ø approx. 11.1 mm
Outer Colour	Deep Black similar to RAL 9005

Article no.: 4.001.025-PE

Item.: Primary Single Conductor Cable, with PE 1x25mm<sup>2</sup>

## Illustration

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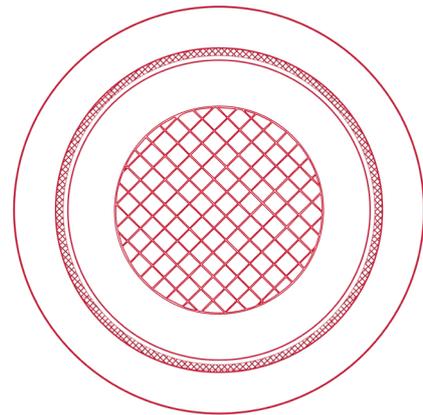
### Technical Specifications

Peak Operating Voltage	U0/U	750 V
	UL/cULus	600 V
Test Voltage		2000 VAV
Temperature Range	Fixed	-40°C/+90°C
	Flexible	-50°C/+90°C
	UL	up to 80°C
min. Bending Radius	Fixed	5 x cable diameter
	Flexible	7.5 x cable diameter
Torsion	+/- 180°/m	



### Dimensions

Outer-Ø	max. 11.1mm
Weight	ca. 287 kg/km
Copper Content	240.0 kg/km
DC resistance at 20°C	max. 0.78 Ω/km



### Design

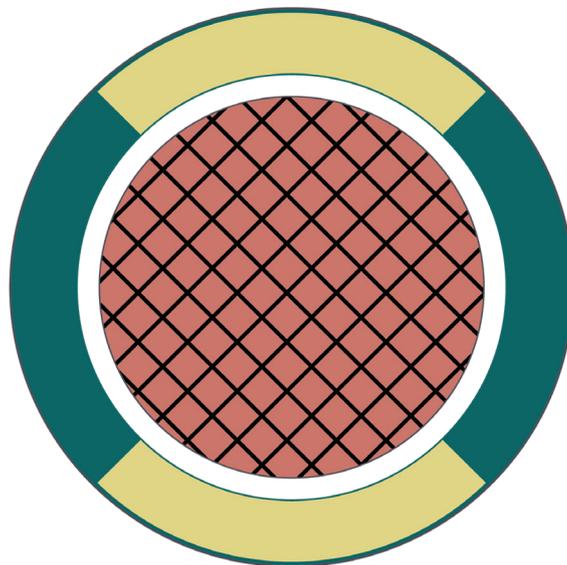
Wire Conductor	Copper, Bare, Finest Strands, Class 6 according to EN 60228, 3192 x 0.10 mm, Ø ca. 7.1 mm
Wire Isolation	SABIX® Thermoplastic Material on Polyolefin Basis Wall Thickness Nom. 0.77 mm, Ø ca. 8.74 mm
Wire Colour	GN/YE
Winding	Fleece
Outer Sheath	PUR, Thermoplastic Based on TPE-U. Meets TMPU acc. to DIN VDE 0282 part 10. Wall Thickness Nom. 1.15 mm, Ø ca. 11.1 mm
Sheath Colour	Deep Black similar to RAL 9005

Article no.: 4.210.711

Item.: Functional Earth Cable, 1x16mm<sup>2</sup>

## Illustration

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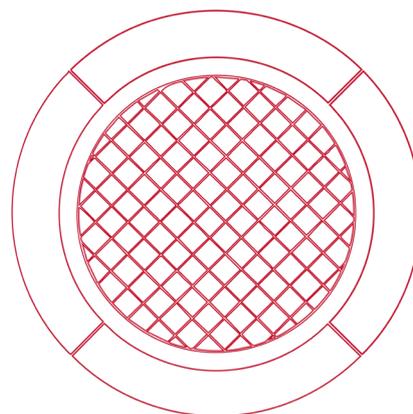


### Technical Specifications

Peak Operating Voltage	U0/U	450/750 V
	UI/Csa	1000V
Temperature Range	Fixed	-40°C/+70°C
	Flexible	-40°C/+70°C
	UI	up to +80°C
Min. Bending Radius	Fixed	4 x cable diameter
	Flexible	7 x cable diameter
Torsion	+/- 180°/m	



Dimensions	
Outer-Ø	9.0 mm +/- 0.50mm
Weight	ca. 191 kg/km
Copper Content	153.6 kg/km
DC resistance at 20°C	max. 1.21 Ω/km



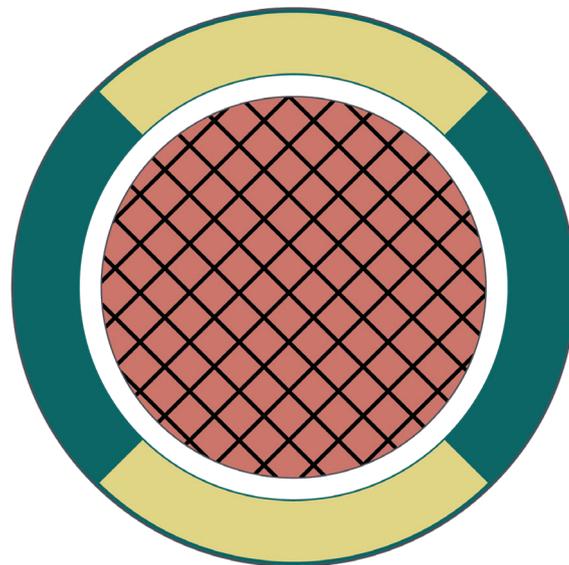
Design	
Wire Conductor	Bare Copper, Finely Stranded, Class 6 acc. to EN 60228
Wire Isolation	PUR
Wire Colour	Green/Yellow
Outer Sheath	PUR, based on TPE-U

Article no.: 4.210.700

Item.: Functional Earth Cable, 1x10mm<sup>2</sup>

## Illustration

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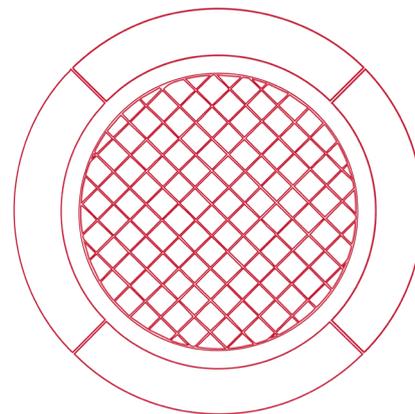


### Technical Specifications

Peak Operating Voltage	U0/U	450/750 V
Voltage	UI / Csa	1000 V
Temperature Range	Flexible	-40°C/+70°C
	Flexible	-40°C/+70°C
	UI / Csa	up to +80°C
min. Bending Radius	Fixed	4 x cable diameter
	Flexible	7 x cable diameter
Torsion	±180°/m	



Dimensions	
Outer-Ø	7.0 mm +/- 0.5mm
Weight	ca. 112 kg/km
Copper Content	96.0 kg/km
DC resistance at 20°C	max. 1.91 Ω/km

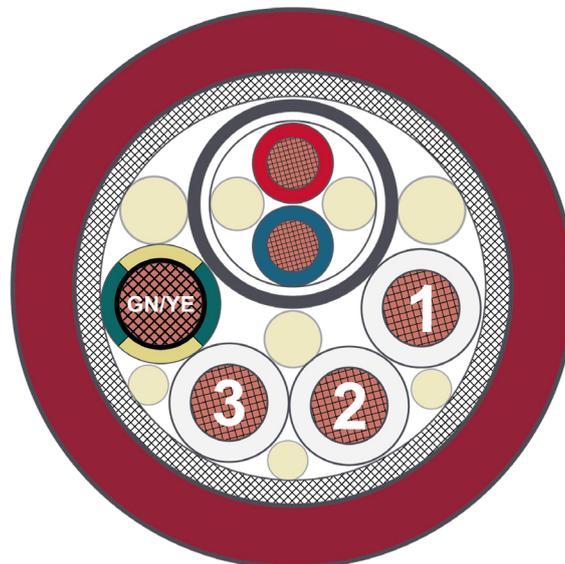


Design	
Wire Conductor	Bare Copper, Extra Fine-Wired acc. to IEC 60228, Class 6
Wire Isolation	TPE
Outer Jacket	PUR
Colour (Jacket)	GN/YE

Article no.: 4.026.066

Item.: Servo Cable, (4x2.5+(2x1.5mm<sup>2</sup>))

## Illustration



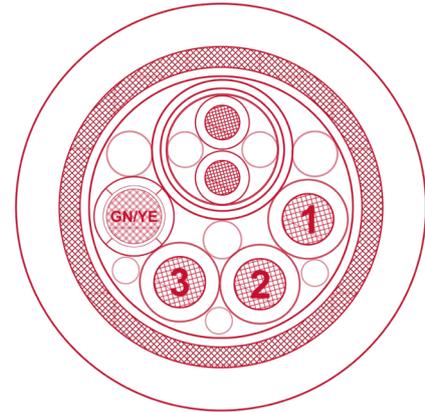
### Technical Specifications

Peak Operating Voltage	VDE	max. 600 V / 1.5mm <sup>2</sup>
Nominal Voltage U0/U	VDE	max. 0.6/1 KV / 2.5mm <sup>2</sup>
Voltage	UI	1000 V
Test Voltage	Wire/Wire	3000 V (AC) / 1.5mm <sup>2</sup>
	Wire/Shielding	3000 V (AC) / 1.5mm <sup>2</sup>
	Wire/Wire	4000 V (AC) / 2.5mm <sup>2</sup>
	Wire/Shielding	4000 V (AC) / 2.5mm <sup>2</sup>
Temperature Range	Flexible	-40°C/+80°C
	Fixed	-50°C/+90°C
min. Bending Radius	Fixed	5 x cable diameter
	Flexible	10 x cable diameter
Torsion	+/- 180°/m	



### Dimensions

Outer-Ø	13.0 mm +/- 0.3 mm
Weight	ca. 267 kg/km
Copper Content	185.0 kg/km
Capacitance Acc. To Vde 0472 Part 504	1.5 mm <sup>2</sup> (core/core) : 24.65 nF/km
	2.5 mm <sup>2</sup> (core/core) : 42.82 – 47.17 nF/km
DC resistance at 20°C	max. 13.3 Ω/km (1.5mm <sup>2</sup> ) // max. 7.98 Ω/km (2.5mm <sup>2</sup> )



### Design

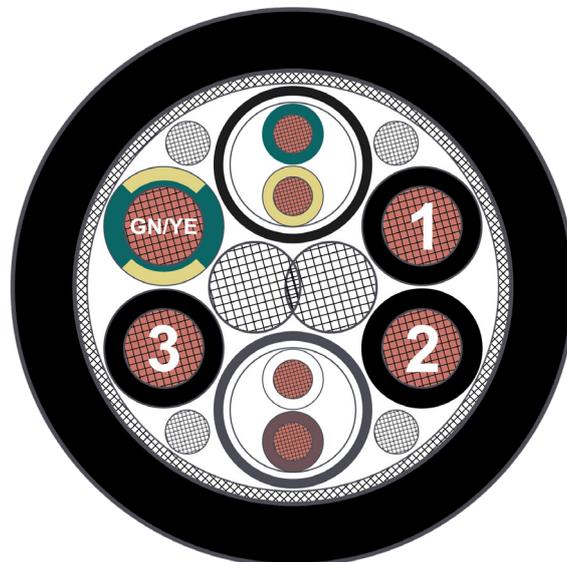
Wire Conductor	1.5mm <sup>2</sup> : Bare Copper 84 X 0.15mmØ 2.5mm <sup>2</sup> : Bare Copper 140 X 0.15mmØ
Wire Isolation	1.5mm <sup>2</sup> : PP 2.5mm <sup>2</sup> : TPE
Identification	1.5mm <sup>2</sup> : BI, Rt 2.5mm <sup>2</sup> : White Wires with Numbers 1 – 3 and Green-Yellow PE
Stranding	Wire 1.5mm <sup>2</sup> Optimized Stranding, Filler in the Gussets
Winding	2 X 1.5mm <sup>2</sup> : Fleece
Shielding	2 X 1.5mm <sup>2</sup> : Tinned Copper Wires 0.10mmØ, Optical Coverage ≥ 85%
Inner Sheath	2 X 1.5mm <sup>2</sup> : TPE, Jet-Black similar to RAL 9005
Stranding	Shielded Pair and Wires 2.5mm <sup>2</sup> Optimized Stranded, Filler in the Core and in the Gussets
Winding	Fleece
Shielding	Tinned Copper Wires 0.10mmØ, Optical Coverage ≥ 85%
Winding	Fleece
Outer Sheath	PUR, Flame Retardant, Halogen Free, Wine Red similar to RAL 3005, Surface Satin Matt

Article no.: 4.026.074

Item.: Servo Cable, (4x2.5+2x(2x1.0mm<sup>2</sup>))

## Illustration

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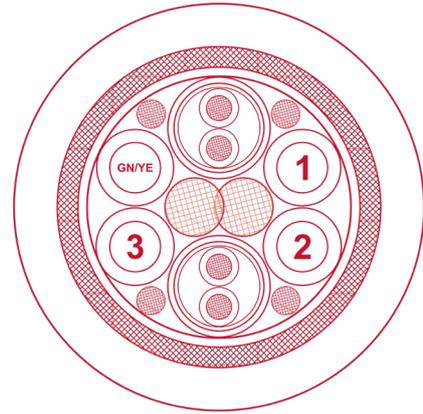


### Technical Specifications

Peak Operating Voltage		max. 600 V
Temperature Range		-20°C/+80°C
min. Bending Radius	Fixed	5 x cable diameter
	Flexible	10 x cable diameter



Dimensions	
Outer-Ø	13.5 mm +/- 0.7mm
Weight	ca. 320 kg/km



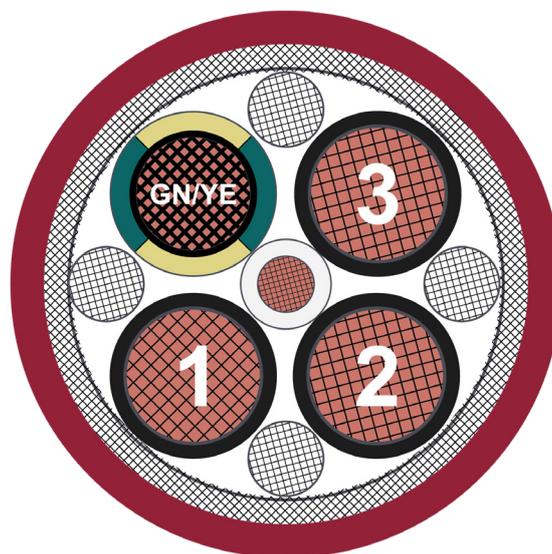
Design	
Wire Conductor	1.0mm <sup>2</sup> : Copper Class 6
	2.5mm <sup>2</sup> : Copper Class 6
Wire Isolation	1.0mm <sup>2</sup> : TPE-E
	2.5mm <sup>2</sup> : TPE-E
Wire Colour	1.0mm <sup>2</sup> : WH/BN, GN/YE
	2.5mm <sup>2</sup> : Black with White Numbers
Stranding	1.0mm <sup>2</sup> : Twisted Pair
Winding	1.0mm <sup>2</sup> : Foil
Shielding	1.0mm <sup>2</sup> : Tin-Plated Copper 0.12mm
Stranding	2x Foil
Overall Shielding	Tin-Plated Copper 0.20mm
Stranding	Foil
Outer Sheath	PUR
Outer Sheath Colour	Black

Article no.: 4.000.791

Item.: Servo Cable, (4x2.5mm<sup>2</sup>)

## Illustration

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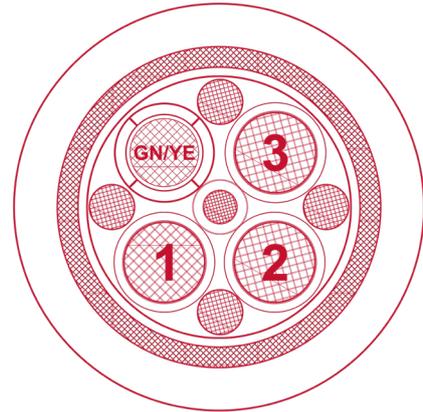


### Technical Specifications

Testing Voltage		1000 V
Temperature Range	Fixed	-25°C/+80°C
	Flexible	-25°C/+80°C
min. Bending Radius	Fixed	5 x cable diameter
	Flexible	10 x cable diameter
Flame Test	VW-1	
Torsion	+/- 180°/m	



Dimensions	
Outer-Ø	10.5 mm
Weight	ca. 182 kg/km
Copper Content	127.0 kg/km



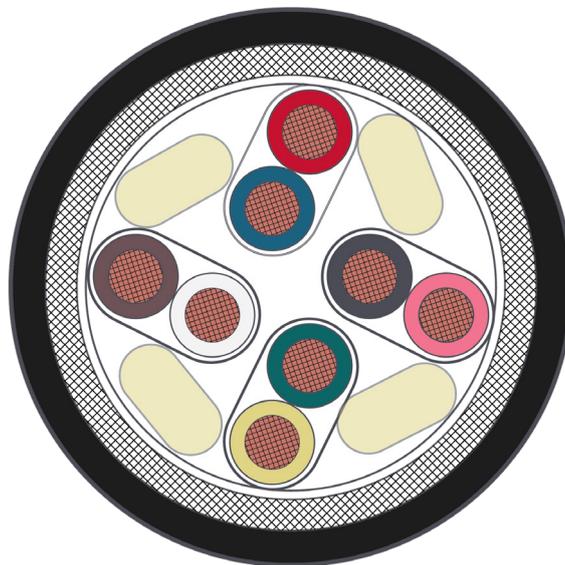
Design	
Wire Conductor	14AWG (2.5 mm <sup>2</sup> ) (140/0.15 mm), Bare Copper Stranded
Wire Isolation	TPE
Wire Colour	1-3.Black with White Digital Number 1-1 to sort 4.Green/Yellow
Shielding	Extremely Torsion-Resistant Winding made of Tinned Copper Wires. Visual appearance: approx. 85%
Outer Sheath	Red similar to RAL 3001, Surface Satin Matt

Article no.: 4.000.761

Item.: Feedback Cable, (4x2x0.34mm<sup>2</sup>)

## Illustration

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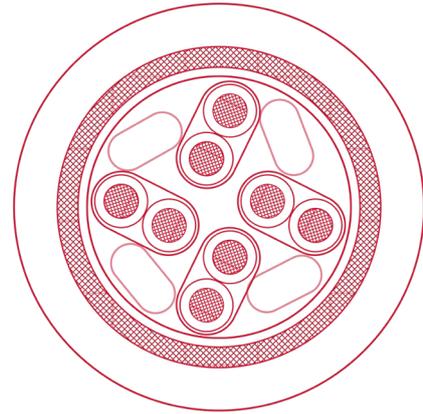
### Technical Specifications

Nominal Voltage		max. 350 V
Test Voltage	Core/Core	1500 V
	Core/Screen	1200 V
Temperature Range	Fixed	-50°C/+90°C
	Flexible	-40°C/+90°C
min. Bending Radius	Fixed	5 x cable diameter
	Flexible	8 x cable diameter
Torsion	±180°/m	



### Dimensions

Outer-Ø	7.0 mm
Weight	ca. 66 kg/km
Copper Content	40.2 kg/km
DC resistance at 20°C	max. 57.4 Ω/km



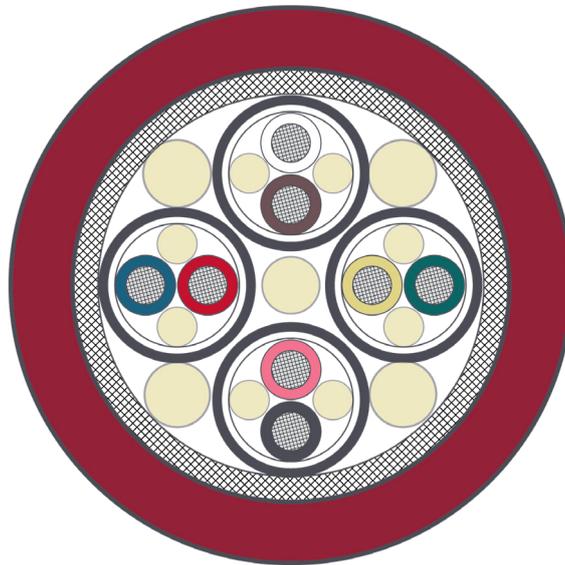
### Design

Wire Conductor	Copper, Bright, Fine-Stranded
Wire Insulation	TPE
Wire Colour	DIN 47100
Stranding	Cores Stranded in Pairs
Pairing	Optimally Stranded Pairs, Fillers in Interstices
Wrapping	Tape and Fleece
Shielding	Wrapping with CuVZ Round Wires
Wrapping	Fleece
Outer Sheath	PUR
Sheath Colour	Black similar to RAL 9005

Article no.: 4.000.779

Item.: Feedback Cable, (4x(2x0.24mm<sup>2</sup>))

## Illustration



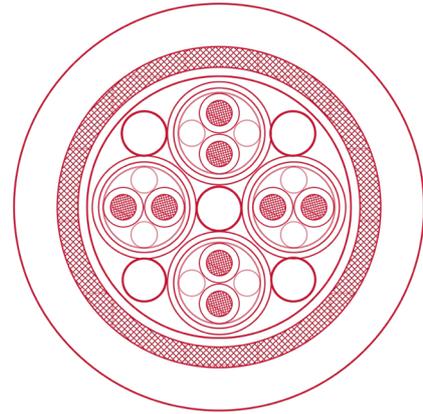
### Technical Specifications

Nominal Voltage	VDE	max. 350 V
	UL / CSA	300V
Test Voltage	Wire/Wire	2000 V, 1 min.
	Wire / Screen	2000 V, 1 min.
Temperature Range	Flexible	-40°C/+70°C
	Fixed	-40°C/+70°C
	UL / CSA	til +80°C
min. Bending Radius	Fixed	5 x cable diameter
	Flexible	10 x cable diameter
Torsion	+/- 180°/m	



### Dimensions

Outer-Ø	max. 9.1 mm
Weight	ca. 106.0 kg/km
DC resistance at 20°C	max. 83.33 Ω/km



### Design

Wire Conductor	Stranded Copper Wire Tinned Fine Wire
Wire Isolation	PE
Wire Pairs	Paired, Filler in the Gusset
Identification	WH/BN, GN/YE, GY/PK, BU/RD
Shielding	Conductor made of Stranded Tinned Copper Wires
Winding	Polyester Tape over Shielded Pair of Wires
Inner Sheath	TPE, Black, Similar to RAL 9005
Stranding	Pairs Optimized Stranded, filler in the Core and in the Gussets Fleece
Winding	Tinned Copper Wire Rerouting
Shielding	Fleece
Outer Sheath	PUR, Flame Retardant, Halogen Free, Wine Red similar to RAL 3005, Surface Satin Matt

Article no.: 4.026.099

Item.: Feedback Cable, (4x(2x0.5)+(1x0.5mm<sup>2</sup>))

## Illustration

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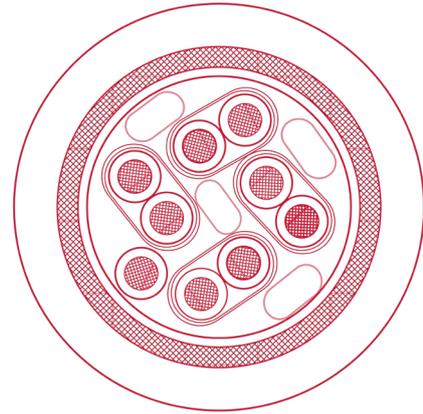
### Technical Specifications

Peak Operating Voltage		max. 600 V
Test Voltage	Wire/Wire	3000 V
	Wire/Shield	2000 V
Temperature Range	Fixed	-40°C/+80°C
	Flexible	-40°C/+80°C
min. Bending Radius	Fixed	2 x cable diameter
	Flexible	5 x cable diameter



### Dimensions

Outer-Ø	max. 9.7 mm
Weight	ca. 141 kg/km
Copper Content	104.2 kg/km
DC resistance at 20°C	max. 39.0 Ω/km



### Design

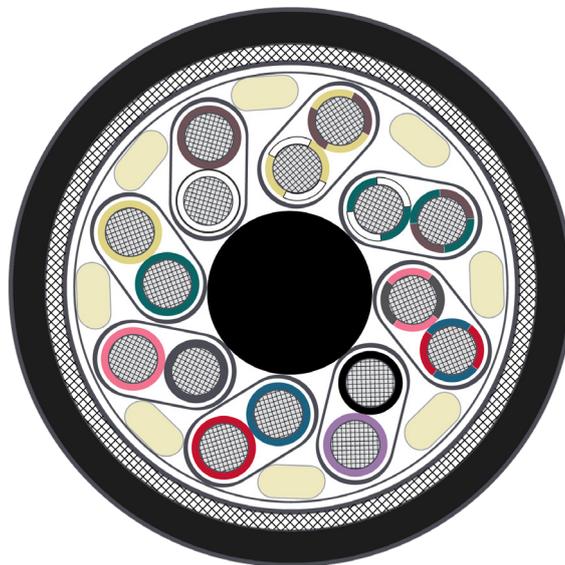
Wire Conductor	Copper, Bare, Fine Stranded
Wire Isolation	TPE
Identification	WH-BN, GN-YE, BU-RD, GY-PK, VT
Stranding	Wires Twisted in Pairs, Wound with Fleece Overlapping
Shielding	Pairs, Single: Lapping Made of Tinned Round Copper Wires, Overlapping Wound with Fleece
Stranding	Pairs and Wire Violet in Layer Optimised Stranded, filler in Core and Gussets, Overlapped Wrapped with Fleece
Outer Sheath	PUR
Sheath Colour	Black, similar to RAL 9005

Article no.: 4.000.776

Item.: Feedback Cable, (8x(2x0.22mm<sup>2</sup>))

## Illustration

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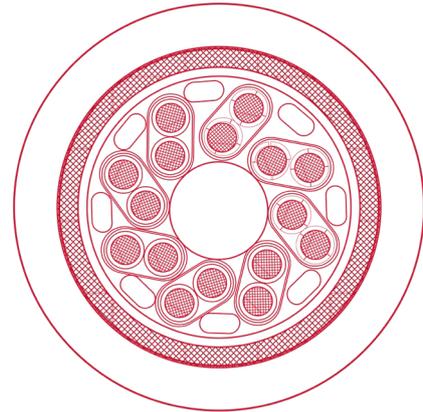
### Technical Specifications

Peak Operating Voltage	VDE	max. 350 V
Test Voltage	Wire/Wire	1500 V, 1 min.
	Wire/Shield	1200 V, 1 min.
Temperature Range	Fixed	-50°C/+90°C
	Flexible	-40°C/+90°C
min. Bending Radius	Flexible	12 x cable diameter
Torsion	+/- 180°/m	



### Dimensions

Outer-Ø	max. 12.2 mm
Weight	ca. 176.0 kg/km
DC resistance at 20°C	max. 90.9 Ω/km



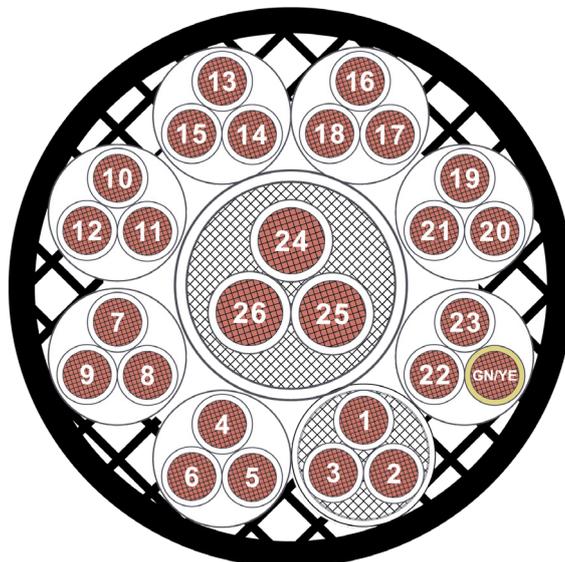
### Design

Wire Conductor	Stranded Copper Wire, Tinned, Finest Strands
Wire Isolation	TPE
Wire Pairs	Paired, filler in the Core and Gussets
Wire Colour	WH/BN, GN/YE, GY/PK, BU/RD, BK/VT, GY_PK-RD_BU/WH_GN-BN_GN/WH_YE-YE_BN/
Shielding	Pairs: Copper-Tinned Round Wire Lapping
Winding	Polyester Tape over Shielded Wire Pair
Inner Sheath	Pairs: TPE, Black, similar to RAL 9005
Stranding	Pairs Twisted Together Optimised, filler in Core and Gussets, Fleece
Winding	Fleece
Outer Sheath	PUR Abrasion-Resistant
Colour	Deep Black, similar to RAL 9005

Article no.: 4.000.330

Item.: Control Cable, 20x0.5+(3x1)+(3x0.5)+1x0.75mm<sup>2</sup>

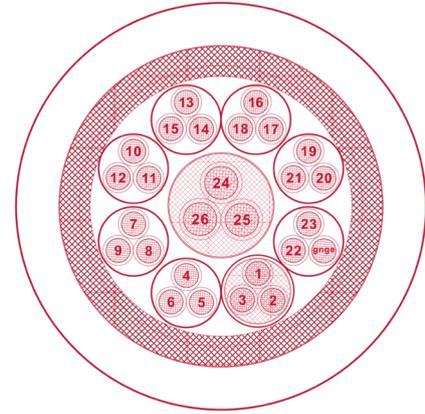
## Illustration



### Technical Specifications

Nominal Voltage	VDE	max. 350 V
Voltage	UL	300 V
Test Voltage	Wire/Wire	2000 V, 1 min.
	Wire/Shielding	2000 V, 1 min.
Temperature Range	Fixed	-50°C/+90°C
	Flexible	-40°C/+90°C
	UL	bis +80°C
min. Bending Radius	Fixed	5 x cable diameter
	Flexible	12 x cable diameter

Dimensions	
Outer-Ø	max. 14.6 mm
Weight	ca. 288 kg/km
Copper Content	171.2 kg/km
	Wire/Shielding
DC resistance at 20°C	0.50 mm <sup>2</sup> : max. 39.0 Ω/km
	0.75 mm <sup>2</sup> : max. 26.0 Ω/km
	1.00 mm <sup>2</sup> : max. 19.5 Ω/km

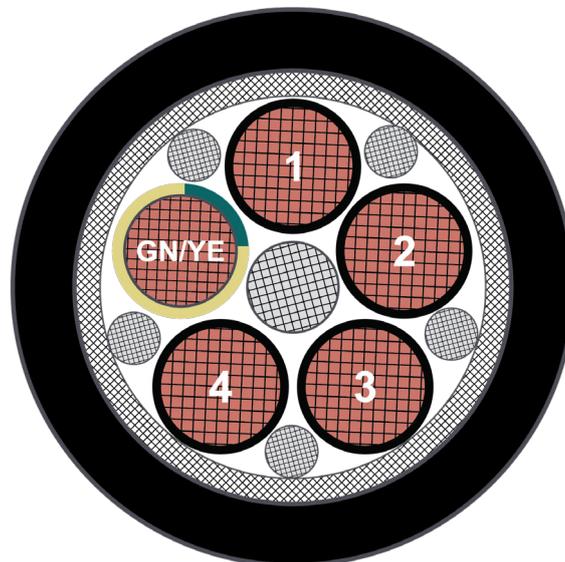


Design	
Wire Conductor	Copper, Bare, Fine Wire Nom. 0.07 Mm Single Wire Ø
Wire Isolation	Thermoplastic Material on the basis of TPE
Identification	0.50 mm <sup>2</sup> : White Cores with Printed Numbers 1 - 23
	0.75 mm <sup>2</sup> : GN/YE
	1.00 mm <sup>2</sup> : White Cores with printed numbers 24 – 26
Shielding	3 Wires 0.50 mm <sup>2</sup> Pairs Optimized Stranded, filler in the Core and in the Gussets
Winding	3x0.50 mm <sup>2</sup> PTFE Film Overlapping Wound
Shielding	3x0.50 mm <sup>2</sup> Copper Tinned Round Wire Rerouting
Winding	3x0.50 mm <sup>2</sup> PTFE Film Overlapping Wound
Stranding	3 Wires 0.50 mm <sup>2</sup> numbers 4-6, 7-9, 10-12, 13-15, 16-18, 19-21 optimised in position stranded
Winding	3x0.50 mm <sup>2</sup> PTFE Film Overlapping Wound
Stranding	2 Wires 0.50 mm <sup>2</sup> numbers 22-23 and Wire 0,75 mm <sup>2</sup> GN/YE Optimised in Position Stranded
Winding	2x0.50 mm <sup>2</sup> +1 x 0.75 mm <sup>2</sup> PTFE Film Overlapping Wound
Shielding	3 wires 1.0 mm <sup>2</sup> Optimized Stranded, filler in the Core and in the Gussets
Winding	3x1.0 mm <sup>2</sup> PTFE Film Overlapping Wound
Stranding	3x1.0 mm <sup>2</sup> Copper Tinned Round Wire Rerouting
Outer Sheath	Thermoplastic Material on the Basis of TPE
Outer Sheath Colour	Deep Black similar to RAL 9005
Stranding	All elements stranded in optimised position, filler in the Gussets
Winding	PTFE Film Overlapping Wound
Winding	Fleece Overlapping Wound
Outer Sheath	PUR, Thermoplastic Material on the Basis of TPE-U
Outer Sheath Colour	Deep Black similar to RAL 9005

Article no.: 4.026.050

Item.: Control Cable, (5x0.75mm<sup>2</sup>)

## Illustration

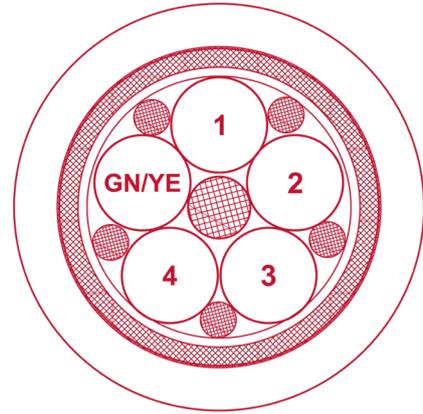


### Technical Specifications

Peak Operating Voltage	VDE	max. 300 V
Voltage	UL	300 V
Test Voltage	Wire/Wire Wire/Shield	2000 V, 1 min.
		2000 V, 1 min.
Temperature Range	Fixed	50°C/+90°C
		40°C/+90°C
min. Bending Radius	Fixed	3 x cable diameter
	Flexible	12 x cable diameter



Dimensions	
Outer-Ø	max. 6.3 mm
Weight	ca. 73.8 kg/km
DC resistance at 20°C	0.50 mm <sup>2</sup> : max. 39.0 Ω/km
	0.75 mm <sup>2</sup> : max. 26.0 Ω/km
	1.00 mm <sup>2</sup> : max. 19.5 Ω/km

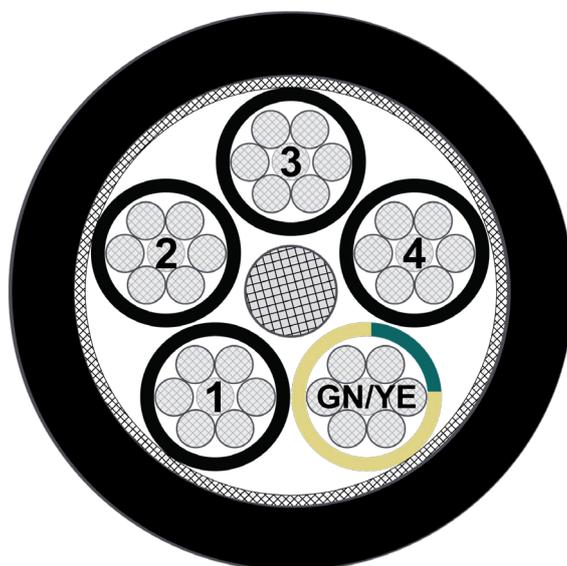


Design	
Wire Conductor	Copper, Bare, Finely Stranded Nom. 0.75 mm Single Wire Ø
Wire Isolation	Thermoplastic on the Basis of TPE
Identification	Black with number printing White no. 1-4 + Yellow-Green
Stranding	5 Cores + Filler
Winding	PTFE
Shielding	Wrapping of Galvanized Copper Wire
Winding	PTFE
Outer Sheath	PUR Abrasion-Resistant, Silk Matt
Outer Colour	Black

Article no.: 4.003.854

Item.: Control Cable, 5x2.5mm<sup>2</sup>

## Illustration



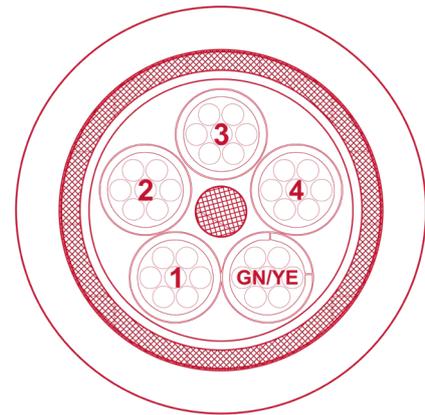
### Technical Specifications

Peak Operating Voltage		1000V
Test Voltage		3000 V
Temperature Range	Fixed	-50°C/+90°C
	Flexible	-40°C/+90°C
	UL	bis +80°C
min Bending Radius		10 x cable diameter
Torsion		+360° / m



### Dimensions

Outer-Ø	ca. 11.0 mm
Weight	192g/m



### Design

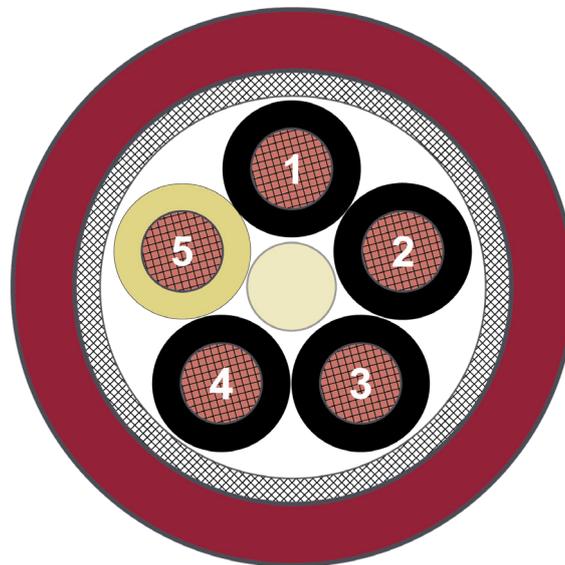
Wire Conductor	Fine-Wire Bare Copper Strands, acc. to IEC 60228 Class 6 (single wire $\approx$ 0.16 mm)
Wire Isolation	TPE
Identification	Black Cores with White Numbers 1 - 4 and Green/Yellow Protective Conductor
Stranding	Together Round a Filler
Winding	Foil
Outer Sheath	PUR
Outer Colour	Matt Black similar to RAL 9005

Article no.: 4.003.850

Item.: Control Cable, 5x1.5mm<sup>2</sup>

## Illustration

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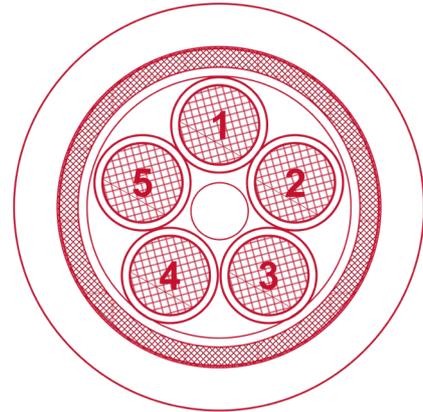
### Technical Specifications

Peak Operating Voltage	U0/U	300V / 500V
Test Voltage	Wire/Wire	2000V
Temperature Range	Fixed	-50°C/+70°C
	Flexible	-40°C/+70°C
min. Bending Radius	Fixed	5 x cable diameter
	Flexible	10 x cable diameter
Torsion	+-360° / m	



### Dimensions

Outer-Ø	ca. 10.0 mm
Weight	ca. 124 kg/km
Copper Content	72.0 kg/km
DC resistance at 20°C	max. 13.3 Ω/km



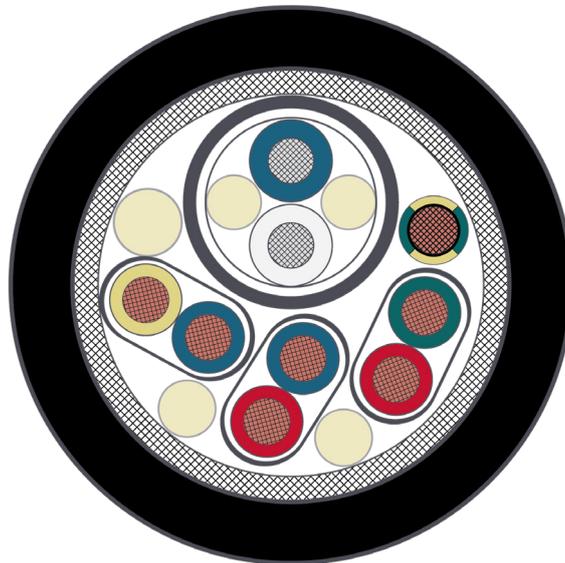
### Design

Wire Conductor	Copper, Bare, Finely Stranded, According to DIN VDE 0295 Class 5, Table 3, Column 3
Wire Isolation	PE 110, Thermoplastic Material Based on Polyethylene, Fulfills 2Y11 acc. to DIN VDE 0207, Part 2
Identification	Black Wires with White Numbers 1 - 4, Yellow Wire with Number 5
Stranding	Cores Stranded in Optimized Position, Filler in Core
Winding	Fleece Wrapped Overlapping
Outer Sheath	PUR
Outer Colour	Ruby Red similar to RAL 3001

Article no.: 4.026.047

Item.: Control Cable, ((2x0.34)+3x(2x0.5)+1x0.5mm<sup>2</sup>)

## Illustration

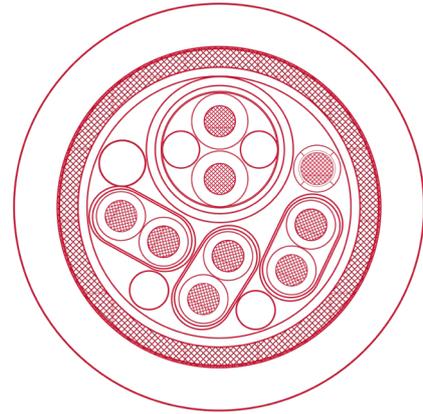


### Technical Specifications

Technical Specifications		
Peak Operating Voltage	U0/U	max. 350 V
Voltage	U	30 V
Test Voltage	Wire/Wire	1500 V (0,34mm <sup>2</sup> )
	Wire/Shield	1200 V (0,34mm <sup>2</sup> )
	Wire/Wire	600 V (0,50mm <sup>2</sup> )
	Wire/Shield	600 V (0,50mm <sup>2</sup> )
Temperature Range	Fixed	-40°C/+70°C
	Flexible	-40°C/+70°C
min. Bending Radius	Fixed	5 x cable diameter
	Flexible	10 x cable diameter



Dimensions	
Outer-Ø	9.5 mm +/-0.3mm
Weight	ca. 112 kg/km
Copper Content	66.9 kg/km
DC resistance at 20°C	0.34 mm <sup>2</sup> : max. 58.8 Ω/km
	0.50 mm <sup>2</sup> : max. 39.0 Ω/km



Design	
Core	0.34mm <sup>2</sup> : Copper, Tinned. Finely Stranded, 42 x 0.10mm Ø
	0.50mm <sup>2</sup> : Copper, Blank, Finely Stranded, 28 x 0.15mmØ
Wire Isolation	0.34mm <sup>2</sup> : Polyethylene
	0.50mm <sup>2</sup> : TPE-E
Wire Colour	0.34mm <sup>2</sup> : Blue, White
	0.50mm <sup>2</sup> : Red, Blue, Green, Red, Blue, Yellow and Green/Yellow
Stranding	0.34mm <sup>2</sup> : Cores Paired Stranded Blue/White
	0.50mm <sup>2</sup> : Cores Paired Stranded Blue/Red, Green/Red, Blue/Yellow
Winding	Fleece Wrapped in an Overlapping Manner
Shielding	Braid of Tinned Copper Wires
Stranding	PTFE
Outer Sheath	TPE-U
Outer Colour	Black similar to RAL 9005



## Becker Robotic – Global Reach, Local Expertise

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