COFICAB
Powered by Passion

WIRES & CABLES
FOR TOMORROW'S TECHNOLOGIES

COFICAB designs and manufactures cables for industrial machinery and robotics

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OVERVIEW

INDUSTRIAL AND ROBOTICS CABLES

POWER AND CONTROL

COMMUNICATION

DRAG CHAIN

COFICAB WORLDWIDE

ABOUT US

Since 1992

COFICAB is a member of ELLOUMI Group, founded in 1946 by Mr. Taoufik Elloumi in Tunisia. ELLOUMI Group is the biggest industrial and exporting group in this country, specializing in a wide variety of services, including automotive, power, and telecom cables, wire harnesses, agribusiness, real-estate, urban planning, retail, home appliances and consulting. ELLOUMI Group comprises 30 subsidiary companies worldwide and employs over 10 000 people.

COFICAB
is your leading global partner in the design, manufacturing, and sales of automotive cables and wires. COFICAB was founded in 1992 by Mr. Hichem Elloumi. Since then, it has experienced an incredible national and international expansion, and an unequaled speed of organic growth.

A very important part of COFICAB's mission, is not only to be at the forefront of technology, but also to be a leader in the field. For this reason, we position ourselves ahead of market trends and demands by offering a broad catalog of products that range from lighter and smaller automotive cables, such as COFskinny; automotive cables for connectivity applications, such as COFdata; cables for autonomous driving, such as COFsense, automotive cables for electric and hybrid cars, such as e-COF; tailor-made cables for and in collaboration with our customer, examples of which, you can see in our cable family, named TAILOR-MADE.

COFICAB develops automotive wires and cables for current applications, but also develops cables for applications that have not yet been required by the current market, which is possible thanks to the constant investment in human and material resources for Research and Development, with the objective to always be at the forefront of the market and the requests of our customers.

OUR SPIRIT OF QUALITY & EXCELLENCE

QUALITY
IATF 16949
ISO 9001

R&D LABORATORY
NP EN
ISO/IEC 17025

OEM accreditation by:
Daimler
FCA
FORD
GM
JLR
PSA
RSA
VW

ENVIRONMENT
HEALTH & SAFETY
ISO 14001
ISO 45001
ISO 50001
EMAS

QUALITY

Undoubtedly, COFICAB is dedicated to quality values by continually providing innovative solutions to its partners in view of understanding their requirements and enhancing the productivity of their engineering and manufacturing applications.

Thanks to these values of knowledge and expertise, integrity, service and empowerment, COFICAB had succeeded to acquire ISO/TS 16949 version 2002 for all facilities in addition to the laboratory accreditation according to ISO 17025.

Our quality concern had driven us to implement up to date quality management systems and best practices that have allowed us to develop capable processes in order to prevent quality issues and, generally speaking, accomplish our corporate quality strategy.

ENVIRONMENT

The environment care and protection are an integral part of our health and safety corporate policies and are key elements in our progress.

We do certainly value the importance of an environment ecologically healthy and safe that's why we had combined all our efforts to reach this ultimate goal through the compliance to the ISO 14001 standards.

In this regard, COFICAB is fully complying with the European directives, IMDS system and is now completely engaged in the REACH program.

INDUSTRIAL AND ROBOTICS CABLES

Power and Control	Communication	Drag Chain

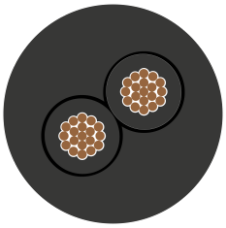
We can customize our cables on demand, e.g. we can produce all cross-sections and temperature classes upon request.

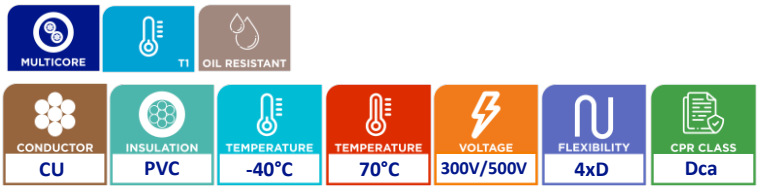
INDUSTRIAL AND ROBOTICS CABLES

POWER AND CONTROL

Control MultiFlex

-40°C to 70°C[1]/90°C[2]





DESIGN

Conductor:	CU class 5, bare, acc. IEC 60228
Insulation material:	plasticized PVC, UL/CSA 90°C rating
Jacket Material:	plasticized PVC, UL/CSA 90°C rating

ACCORDING TO THE STANDARD

1. UL 758
2. UL Style 10012
3. UL Style 21098
4. CSA C22.2 No. 210-15

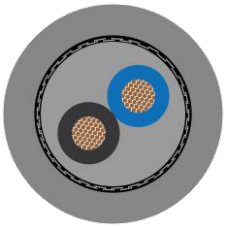
TECHNICAL DATA

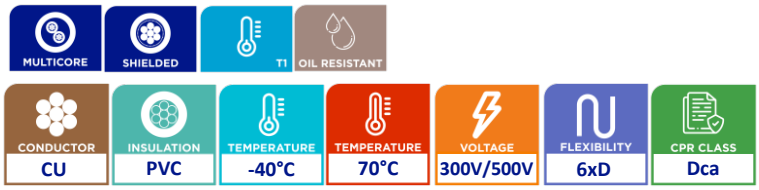
Temperature range:	-40°C to 70°C[1]/90°C[2] (fixed installation) -5°C to 70°C[1]/90°C[2] (occasional flexing) [1] Acc. HAR[2] Acc. UL/CSA
Min. Bending Radius:	4xD (fixed installation) 15xD (occasional flexing)
Nominal Voltage:	300/500 V (acc. EN) 600 V (acc. UL/CSA)
Flame Rate:	VW-1 (acc. UL) FT1 (acc. CSA)
Test Voltage:	4000 V
CPR:	Dca

Type	Conductor			Core		Cable		
	Geometry		Resistance (20°C)	Geometry		Geometry		According to the Standard
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	
Control MultiFlex	7 x 0,75	24 x 0,21	26,0	0,51	1,7 – 2,5	0,9	7,5 – 9,5	1, 2, 3, 4
Control MultiFlex	5 x 1,00	32 x 0,21	19,5	0,51	1,9 – 2,6	0,9	7,3 – 9,2	1, 2, 3, 4
Control MultiFlex	2 x 1,50	30 x 0,26	13,3	0,51	2,1 – 2,9	0,8	6,1 – 7,7	1, 2, 3, 4
Control MultiFlex	3 x 1,50	30 x 0,26	13,3	0,51	2,1 – 2,9	0,8	6,5 – 8,2	1, 2, 3, 4
Control MultiFlex	4 x 6,00	84 x 0,31	3,30	0,6	3,7 – 4,9	1,2	11,8 – 14,6	1, 2, 3, 4
Control MultiFlex	4 x 16,00	126 x 0,41	1,21	1,14	6,7 – 8,4	1,8	20,1 – 24,6	1, 2, 3, 4
Control MultiFlex	5 x 25,00	196 x 0,41	0,78	1,14	8,0 – 10,1	2,3	26,6 – 32,5	1, 2, 3, 4

Control MultiFlex-C

-40°C to 70°C[1]/90°C[2]





DESIGN

Conductor:	CU class 5, bare, acc. IEC 60228
Insulation material:	plasticized PVC, UL/CSA 90°C rating
Inner material:	plasticized PVC, UL/CSA 90°C rating
Jacket Material:	plasticized PVC, UL/CSA 90°C rating, Oil resistant

ACCORDING TO THE STANDARD

1. UL 758
2. UL Style 10012
3. UL Style 21098
4. CSA C22.2 No. 210-15

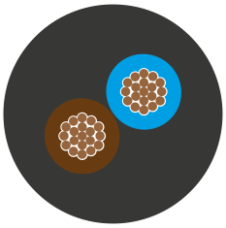
TECHNICAL DATA

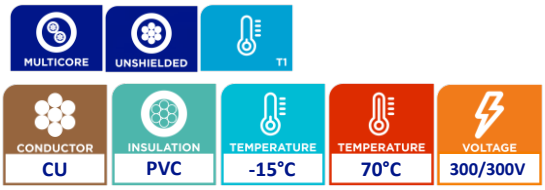
Temperature range:	-40°C to 70°C[1]/90°C[2] (fixed installation) -5°C to 70°C[1]/90°C[2] (occasional flexing)
Min. Bending Radius:	6xD (fixed installation) 20xD (occasional flexing)
Nominal Voltage:	300/500 V (acc. VDE) 600 V (acc. UL/CSA)
Test Voltage:	4000 V
Flame Rate:	VW-1 (acc. UL) FT1 (acc. CSA)
CPR:	Dca

Type	Conductor			Core			Screen	Cable		
	Geometry		Resistance (20°C)	Geometry		Geometry		Geometry		According to the Standard
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	Wall thickness nom.	Coverage nom.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[%]	[mm]	[mm]	
Control MultiFlex-C	5 x 1,00	32 x 0,51	19,5	0,51	1,9 – 2,6	0,7	85	1,0	9,1 – 11,4	1, 2, 3, 4
Control MultiFlex-C	2 x 1,50	30 x 0,26	13,3	0,51	2,1 – 2,9	0,7	85	0,9	7,9 – 9,9	1, 2, 3, 4
Control MultiFlex-C	4 x 1,50	30 x 0,26	13,3	0,51	2,1 – 2,9	0,7	85	1,0	9,1 – 11,4	1, 2, 3, 4
Control MultiFlex-C	12 x 1,50	30 x 0,26	13,3	0,51	2,1 – 2,9	0,8	85	1,4	14,4 – 17,8	1, 2, 3, 4
Control MultiFlex-C	3 x 2,50	50 x 0,26	7,98	0,51	2,6 – 3,4	0,7	85	1,0	9,4 – 11,7	1, 2, 3, 4
Control MultiFlex-C	4 x 4,00	56 x 0,31	4,95	0,51	3,1 – 4,1	0,8	85	1,2	12,1 – 15,0	1, 2, 3, 4
Control MultiFlex-C	4 x 16,00	126 x 0,41	1,21	1,14	6,7 – 8,4	1,0	85	2,0	22,9 – 28,0	1, 2, 3, 4
Control MultiFlex-C	4 x 25,00	196 x 0,41	0,78	1,14	8,0 – 10,1	1,0	85	2,3	26,7 – 32,6	1, 2, 3, 4

H03VV-F

-15°C to 70°C





DESIGN

Conductor:	CU class 5, bare, acc. IEC60228
Insulation material:	plasticized PVC
Jacket Material:	plasticized PVC

TECHNICAL DATA

Voltage level:	300/300V
Temperature range:	-15°C to 70°C

CONSTRUCTION

PVC jacketed cable with twisted PVC single cores.

ACCORDING TO THE STANDARD

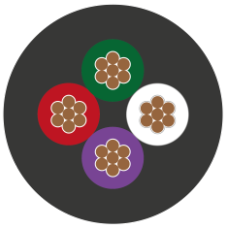
1. EN 50525-2-11

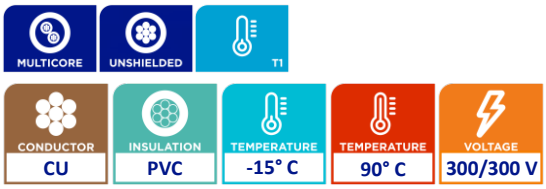
Type	Conductor			Core		Cable			
	Geometry		Resistance (20°C)	Geometry		Geometry			According to the Standard
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	Lay length max.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	[mm]	
H03VV-F	2 x 0,50	16 x 0,21	39	0,50	1,85 – 2,05	120	0,60	4,6 – 5,9	1
H03VV-F	2 x 0,75	24 x 0,21	26	0,50	2,05 – 2,25	120	0,60	4,9 – 6,3	1
H03VV-F	3 x 0,50	16 x 0,21	39	0,50	1,85 – 2,05	130	0,60	4,9 – 6,3	1
H03VV-F	3 x 0,75	24 x 0,21	26	0,50	2,05 – 2,25	130	0,60	5,2 – 6,7	1
H03VV-F	4 x 0,50	16 x 0,21	39	0,50	1,85 – 2,05	150	0,60	5,4 – 6,9	1
H03VV-F	4 x 0,75	24 x 0,21	26	0,50	2,05 – 2,25	150	0,60	5,7 – 7,3	1

Cable type		
Type	Cross-section	Weight approx.
	[mm²]	[g/m]
H03VV-F	2 x 0,50	33
H03VV-F	2 x 0,75	40
H03VV-F	3 x 0,50	39
H03VV-F	3 x 0,75	48
H03VV-F	4 x 0,50	49
H03VV-F	4 x 0,75	62

H03V2V2-F

-15°C … 90°C





DESIGN

Conductor: CU class 5, bare, acc. IEC60228
Insulation material: plasticized PVC
Jacket Material: plasticized PVC

CONSTRUCTION

PVC jacketed cable with twisted PVC single cores.

TECHNICAL DATA

Voltage level: 300/300V
Temperature range: -15°C … 90°C

ACCORDING TO THE STANDARD

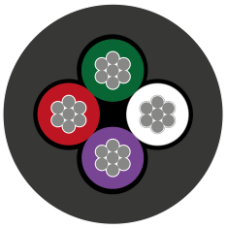
1. EN 50525-2-11

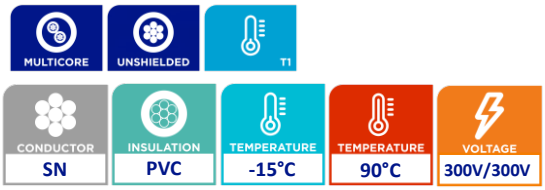
Type	Conductor			Core		Cable			
	Geometry		Resistance (20°C)	Geometry		Geometry			According to the Standard
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	Lay Length max.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	[mm]	
H03V2V2-F	2 x 0,50	16 x 0,21	39	0,50	1,85 – 2,05	120	0,60	4,6 – 5,9	1
H03V2V2-F	2 x 0,75	24 x 0,21	26	0,50	2,05 – 2,25	120	0,60	4,9 – 6,3	1
H03V2V2-F	3 x 0,50	16 x 0,21	39	0,50	1,85 – 2,05	130	0,60	4,9 – 6,3	1
H03V2V2-F	3 x 0,75	24 x 0,21	26	0,50	2,05 – 2,25	130	0,60	5,2 – 6,7	1
H03V2V2-F	4 x 0,50	16 x 0,21	39	0,50	1,85 – 2,05	150	0,60	5,4 – 6,9	1
H03V2V2-F	4 x 0,75	24 x 0,21	26	0,50	2,05 – 2,25	150	0,60	5,7 – 7,3	1

Cable type		
Type	Cross-section	Weight Approx.
	[mm²]	[g/m]
H03V2V2-F	2 x 0,50	31
H03V2V2-F	2 x 0,75	39
H03V2V2-F	3 x 0,50	37
H03V2V2-F	3 x 0,75	52
H03V2V2-F	4 x 0,50	47
H03V2V2-F	4 x 0,75	60

H03V2V2-F sn

-15°C … 90°C





DESIGN

Conductor:	CU class 5, tinned, acc. IEC60228
Insulation material:	plasticized PVC
Jacket Material:	plasticized PVC

TECHNICAL DATA

Voltage level:	300/300V
Temperature range:	-15°C … 90°C
Shore A 15'':	90±5 (core) 83±5 (jacket)

CONSTRUCTION

PVC jacketed cable with twisted PVC single cores.

ACCORDING TO THE STANDARD

1. EN 50525-2-11

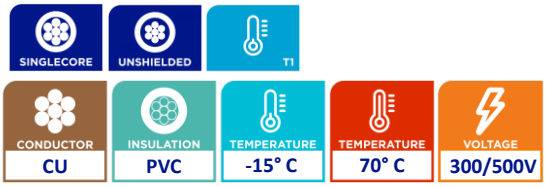
Type	Conductor			Core		Cable			
	Geometry		Resistance (20°C)	Geometry		Geometry			According to the Standard
	Cross-section	Construction	Tinned max.	Wall thickness nom.	Diameter	Lay Length max.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	[mm]	
H03V2V2-F sn	2 x 0,50	16 x 0,21	40,1	0,50	1,85 – 2,05	120 (S)	0,60	4,6 – 5,9 5,0 – 5,2*	1
H03V2V2-F sn	2 x 0,75	24 x 0,21	26,7	0,50	2,05 – 2,25	120 (S)	0,60	4,9 – 6,3	1
H03V2V2-F sn	3 x 0,50	16 x 0,21	40,1	0,50	1,85 – 2,05	130 (S)	0,60	4,9 – 6,3	1
H03V2V2-F sn	3 x 0,75	24 x 0,21	26,7	0,50	2,05 – 2,25	130 (S)	0,60	5,2 – 6,7	1
H03V2V2-F sn	4 x 0,50	16 x 0,21	40,1	0,50	1,85 – 2,05	150 (S)	0,60	5,4 – 6,9	1
H03V2V2-F sn	4 x 0,75	24 x 0,21	26,7	0,50	2,05 – 2,25	150 (S)	0,60	5,7 – 7,3	1

*Special Diameter Request

Cable type		
Type	Cross-section	Weight Approx.
	[mm²]	[g/m]
H03V2V2-F sn	2 x 0,50	31
H03V2V2-F sn	2 x 0,75	39
H03V2V2-F sn	3 x 0,50	37
H03V2V2-F sn	3 x 0,75	52
H03V2V2-F sn	4 x 0,50	47
H03V2V2-F sn	4 x 0,75	60

H05V-K

-15°C … 70°C



DESIGN

Conductor: CU class 5, bare, acc. IEC 60228
Insulation material: plasticized PVC

CONSTRUCTION

Energy cable with PVC insulation.

TECHNICAL DATA

Voltage level: 300/500V
Temperature range: -15°C … 70°C
Shore A 15'': 85±5

ACCORDING TO THE STANDARD

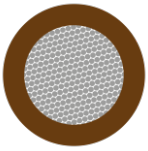
1. EN 50525-2-31

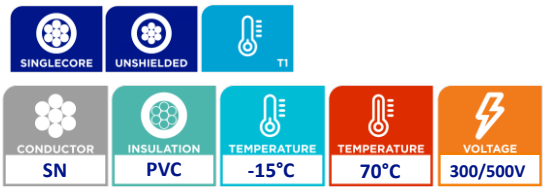
Type	Conductor				Cable		
	Geometry			Resistance (20°C)	Geometry		According to the Standard
	Cross-section	Construction	Lay length max.	Bare max.	Wall thickness nom.	Diameter	
	[mm²]	N* x Ømax.[mm]	[mm]	[mΩ/m]	[mm]	[mm]	
H05V-K	0,50	16 x 0,21	45	39,00	0,6	2,1 – 2,5	1
H05V-K	0,75	24 x 0,21	55	26,00	0,6	2,2 – 2,7	1
H05V-K	1,00	32 x 0,21	65	19,50	0,6	2,4 – 2,8	1

Cable type		
Type	Cross-section	Weight Approx.
	[mm²]	[g/m]
H05V-K	0,50	8,7
H05V-K	0,75	11
H05V-K	1,00	14

H05V-K Sn

-15°C to 70°C





DESIGN

Conductor:	CU class 5, tinned, acc. IEC 60228
Insulation material:	plasticized PVC

TECHNICAL DATA

Voltage level:	300/500V
Temperature range:	-15°C to 70°C
Shore D 15'':	39±6

ACCORDING TO THE STANDARD

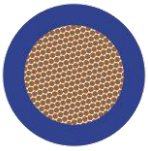
1. EN 50525-2-31

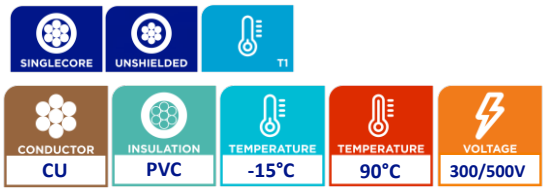
Type	Conductor				Cable		
	Geometry		Lay length max.	Resistance (20°C)	Geometry		According to the Standard
	Cross-section	Construction		Tinned max.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mm]	[mΩ/m]	[mm]	[mm]	
H05V-K Sn	0,50	16 x 0,21	45	40,1	0,6	2,1 – 2,5	1
H05V-K Sn	0,75	24 x 0,21	55	26,7	0,6	2,2 – 2,7	1
H05V-K Sn	1,00	32 x 0,21	65	20,0	0,6	2,4 – 2,8	1

Cable type		
Type	Cross-section	Weight approx.
	[mm²]	[g/m]
H05V-K Sn	0,50	8,8
H05V-K Sn	0,75	11
H05V-K Sn	1,00	14

H05V2-K

-15°C to 90°C





DESIGN

Conductor:	CU class 5, bare, acc. IEC 60228
Insulation material:	plasticized PVC

TECHNICAL DATA

Voltage level:	300/500V
Temperature range:	-15°C to 90°C
Shore D 15'':	42±6

ACCORDING TO THE STANDARD

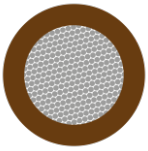
1. EN 50525-2-31

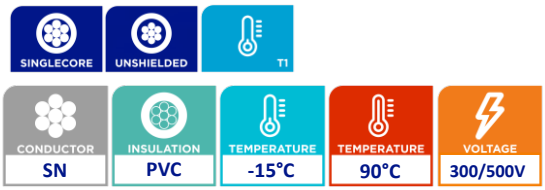
Type	Conductor				Cable		
	Geometry		Lay length max.	Resistance (20°C)	Geometry		According to the Standard
	Cross-section	Construction		Bare max.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mm]	[mΩ/m]	[mm]	[mm]	
H05V2-K	0,50	16 x 0,21	45	39,00	0,6	2,1 – 2,5	1
H05V2-K	0,75	24 x 0,21	55	26,00	0,6	2,2 – 2,7	1
H05V2-K	1,00	32 x 0,21	65	19,50	0,6	2,4 – 2,8	1

Cable type		
Type	Cross-section	Weight approx.
	[mm²]	[g/m]
H05V2-K	0,50	8
H05V2-K	0,75	11
H05V2-K	1,00	13

H05V2-K Sn

-15°C to 90°C





DESIGN

Conductor:	CU class 5, tinned, acc. IEC 60228
Insulation material:	plasticized PVC

TECHNICAL DATA

Voltage level:	300/500V
Temperature range:	-15°C to 90°C
Shore A 15'':	90±5

ACCORDING TO THE STANDARD

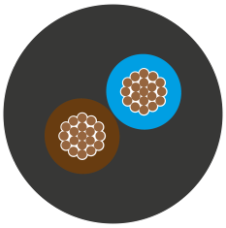
1. EN 50525-2-31

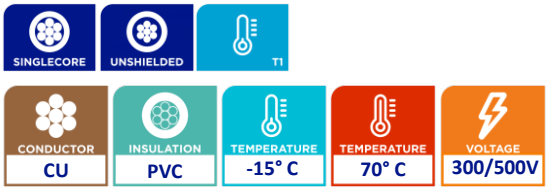
Type	Conductor				Cable		
	Geometry		Lay length max.	Resistance (20°C)	Geometry		According to the Standard
	Cross-section	Construction		Tinned max.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mm]	[mΩ/m]	[mm]	[mm]	
H05V2-K Sn	0,50	16 x 0,21	45	40,1	0,6	2,1 – 2,5	1
H05V2-K Sn	0,75	24 x 0,21	55	26,7	0,6	2,2 – 2,7	1
H05V2-K Sn	1,00	32 x 0,21	65	20,0	0,6	2,4 – 2,8	1

Cable type		
Type	Cross-section	Weight approx.
	[mm²]	[g/m]
H05V2-K Sn	0,50	8,5
H05V2-K Sn	0,75	11
H05V2-K Sn	1,00	13

H05VV-F

-15°C … 70°C





DESIGN

Conductor: CU class 5, bare, acc. IEC60228
Insulation material: plasticized PVC
Jacket Material: plasticized PVC

CONSTRUCTION

PVC jacketed cable with twisted PVC single cores.

TECHNICAL DATA

Voltage level: 300/500V
Temperature range: -15°C to 70°C

ACCORDING TO THE STANDARD

1. EN 50525-2-11GMW 15626

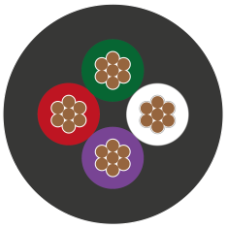
Type	Conductor			Core		Cable			
	Geometry		Resistance (20°C)	Geometry		Geometry			According to the Standard
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	Lay length max.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	[mm]	
H05VV-F	2 x 0,75	24 x 0,21	26,00	0,60	2,20 – 2,40	120	0,80	5,70 – 7,20	1
H05VV-F	2 x 1,00	32 x 0,21	19,50	0,60	2,35 – 2,55	130	0,80	5,90 – 7,50	1
H05VV-F	2 x 1,50	30 x 0,26	13,30	0,70	2,75 – 2,95	130	0,80	6,80 – 8,60 7,20 – 7,40*	1
H05VV-F	2 x 2,50	50 x 0,26	7,98	0,80	3,30 – 3,50	150	1,00	8,40 – 10,60	1
H05VV-F	2 x 4,00	56 x 0,31	4,95	0,80	3,85 – 4,05	180	1,10	9,70 – 12,10	1
H05VV-F	3 x 0,75	24 x 0,21	26,00	0,60	2,20 – 2,40	130	0,80	6,00 – 7,60 6,40 – 6,60*	1
H05VV-F	3 x 1,00	32 x 0,21	19,50	0,60	2,35 – 2,55	150	0,80	6,30 – 8,00 6,70 – 6,90*	1
H05VV-F	3 x 1,50	30 x 0,26	13,30	0,70	2,75 – 2,95	150	0,90	7,40 – 9,40 7,75 – 8,00*	1
H05VV-F	3 x 2,50	50 x 0,26	7,98	0,80	3,30 – 3,50	180	1,10	9,20 – 11,40 9,60 – 9,80*	1
H05VV-F	3 x 4,00	56 x 0,31	4,95	0,80	3,85 – 4,05	200	1,20	10,50 – 13,10	1
H05VV-F	4 x 0,75	24 x 0,21	26,00	0,60	2,20 – 2,40	150	0,80	6,60 – 8,30	1
H05VV-F	4 x 1,00	32 x 0,21	19,50	0,60	2,35 – 2,55	180	0,90	7,10 – 9,00	1
H05VV-F	4 x 1,50	30 x 0,26	13,30	0,70	2,75 – 2,95	180	1,00	8,40 – 10,50	1
H05VV-F	4 x 2,50	50 x 0,26	7,98	0,80	3,30 – 3,50	200	1,10	10,10 – 12,50	1
H05VV-F	4 x 4,00	56 x 0,31	4,95	0,80	3,85 – 4,05	250	1,20	11,50 – 14,30	1
H05VV-F	5 x 0,75	24 x 0,21	26,00	0,60	2,20 – 2,40	180	0,90	7,40 – 9,30	1
H05VV-F	5 x 1,00	32 x 0,21	19,50	0,60	2,35 – 2,55	180	0,90	7,80 – 9,80	1
H05VV-F	5 x 1,50	30 x 0,26	13,30	0,70	2,75 – 2,95	200	1,10	9,30 – 11,60	1
H05VV-F	5 x 2,50	50 x 0,26	7,98	0,80	3,30 – 3,50	250	1,20	11,20 – 13,90	1
H05VV-F	5 x 4,00	56 x 0,31	4,95	0,80	3,85 – 4,05	250	1,40	13,00 – 16,10	1

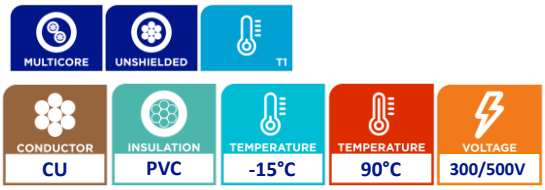
*Special Request Fasinco

Cable type		
Type	Cross-section	Weight Approx.
	[mm²]	[g/m]
H05VV-F	2 x 0,75	49
H05VV-F	2 x 1,00	56
H05VV-F	2 x 1,50	74
H05VV-F	2 x 2,50	115
H05VV-F	2 x 4,00	161
H05VV-F	3 x 0,75	59
H05VV-F	3 x 1,00	68
H05VV-F	3 x 1,50	95
H05VV-F	3 x 2,50	147
H05VV-F	3 x 4,00	206
H05VV-F	4 x 0,75	73
H05VV-F	4 x 1,00	89
H05VV-F	4 x 1,50	130
H05VV-F	4 x 2,50	185
H05VV-F	4 x 4,00	260
H05VV-F	5 x 0,75	93
H05VV-F	5 x 1,00	108
H05VV-F	5 x 1,50	154
H05VV-F	5 x 2,50	230
H05VV-F	5 x 4,00	330

H05V2V2-F

-15°C to 90°C





DESIGN

Conductor:	CU class 5, bare, acc. IEC60228
Insulation material:	plasticized PVC
Jacket Material:	plasticized PVC

TECHNICAL DATA

Voltage level:	300/500V
Temperature range:	-15°C to 90°C

CONSTRUCTION

PVC jacketed cable with twisted PVC single cores.

ACCORDING TO THE STANDARD

1. EN 50525-2-11

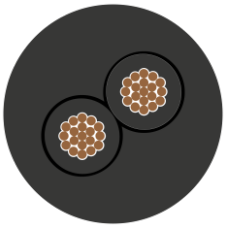
Type	Conductor			Core		Cable			
	Geometry		Resistance (20°C)	Geometry		Geometry			According to the Standard
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	Lay Length max.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	[mm]	
H05V2V2-F	2 x 0,75	24 x 0,21	26,00	0,60	2,20 – 2,40	120	0,80	5,70 – 7,20	1
H05V2V2-F	2 x 1,00	32 x 0,21	19,50	0,60	2,35 – 2,55	130	0,80	5,90 – 7,50	1
H05V2V2-F	2 x 1,50	30 x 0,26	13,30	0,70	2,75 – 2,95	130	0,80	6,80 – 8,60	1
H05V2V2-F	2 x 2,50	50 x 0,26	7,98	0,80	3,30 – 3,50	150	1,00	8,40 – 10,60	1
H05V2V2-F	2 x 4,00	56 x 0,31	4,95	0,80	3,85 – 4,05	180	1,10	9,70 – 12,10	1
H05V2V2-F	3 x 0,75	24 x 0,21	26,00	0,60	2,20 – 2,40	130	0,80	6,00 – 7,60 6,40 – 6,60*	1
H05V2V2-F	3 x 1,00	32 x 0,21	19,50	0,60	2,35 – 2,55	150	0,80	6,30 – 8,00 6,70 – 6,90*	1
H05V2V2-F	3 x 1,50	30 x 0,26	13,30	0,70	2,75 – 2,95	150	0,90	7,40 – 9,40 7,80 – 8,00*	1
H05V2V2-F	3 x 2,50	50 x 0,26	7,98	0,80	3,30 – 3,50	180	1,10	9,20 – 11,40	1
H05V2V2-F	3 x 4,00	56 x 0,31	4,95	0,80	3,85 – 4,05	200	1,20	10,50 – 13,10	1
H05V2V2-F	4 x 0,75	24 x 0,21	26,00	0,60	2,20 – 2,40	150	0,80	6,60 – 8,30	1
H05V2V2-F	4 x 1,00	32 x 0,21	19,50	0,60	2,35 – 2,55	180	0,90	7,10 – 9,00	1
H05V2V2-F	4 x 1,50	30 x 0,26	13,30	0,70	2,75 – 2,95	180	1,00	8,40 – 10,50	1
H05V2V2-F	4 x 2,50	50 x 0,26	7,98	0,80	3,30 – 3,50	200	1,10	10,10 – 12,50	1
H05V2V2-F	4 x 4,00	56 x 0,31	4,95	0,80	3,85 – 4,05	250	1,20	11,50 – 14,30	1
H05V2V2-F	5 x 0,75	24 x 0,21	26,00	0,60	2,20 – 2,40	180	0,90	7,40 – 9,30	1
H05V2V2-F	5 x 1,00	32 x 0,21	19,50	0,60	2,35 – 2,55	180	0,90	7,80 – 9,80	1
H05V2V2-F	5 x 1,50	30 x 0,26	13,30	0,70	2,75 – 2,95	200	1,10	9,30 – 11,60	1
H05V2V2-F	5 x 2,50	50 x 0,26	7,98	0,80	3,30 – 3,50	250	1,20	11,20 – 13,90	1
H05V2V2-F	5 x 4,00	56 x 0,31	4,95	0,80	3,85 – 4,05	250	1,40	13,00 – 16,10	1

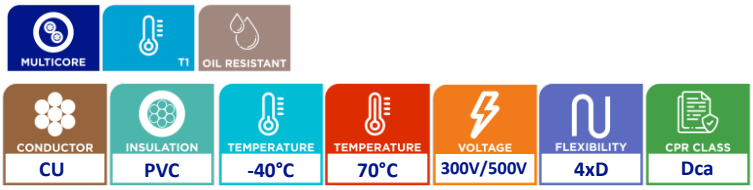
*Special Request Fasinco

Cable type		
Type	Cross-section [mm²]	Weight approx. [g/m]
H05V2V2-F	2 x 0,75	47
H05V2V2-F	2 x 1,00	54
H05V2V2-F	2 x 1,50	71
H05V2V2-F	2 x 2,50	111
H05V2V2-F	2 x 4,00	155
H05V2V2-F	3 x 0,75	59
H05V2V2-F	3 x 1,00	71
H05V2V2-F	3 x 1,50	97
H05V2V2-F	3 x 2,50	142
H05V2V2-F	3 x 4,00	199
H05V2V2-F	4 x 0,75	70
H05V2V2-F	4 x 1,00	85
H05V2V2-F	4 x 1,50	118
H05V2V2-F	4 x 2,50	178
H05V2V2-F	4 x 4,00	252
H05V2V2-F	5 x 0,75	89
H05V2V2-F	5 x 1,00	104
H05V2V2-F	5 x 1,50	174
H05V2V2-F	5 x 2,50	222
H05V2V2-F	5 x 4,00	320

H05VV5-F

-40°C to 70°C(1)/90°C(2)





DESIGN

Conductor:	CU class 5, bare, acc. IEC 60228
Insulation material:	plasticized PVC, TI2, acc. EN 50363-3
Jacket Material:	plasticized PVC, TM5, acc. EN 50363-4-1, Oil resistant

ACCORDING TO THE STANDARD

1. EN 50525-2-51
2. UL Style 10012
3. UL Style 21098
4. CSA C22.2 No. 210-15

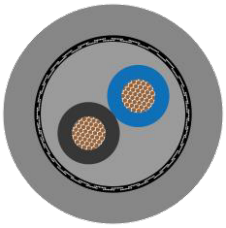
TECHNICAL DATA

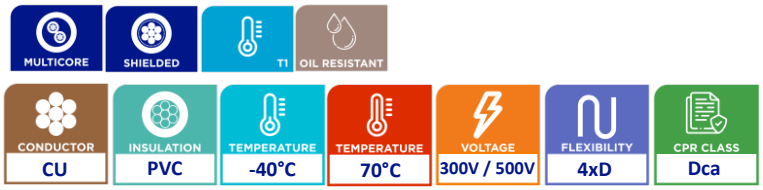
Voltage level:	300 / 500 V
Temperature range:	-40°C to 70°C(1)/90°C(2) (1) Acc. HAR (2) Acc. UL/CSA
Min. Bending Radius:	4xD (fixed installation) 12,5xD (occasional flexing)
Nominal Voltage:	300/500 V (acc. HAR) 600 V (acc. UL/CSA)
Test Voltage:	3000 V
CPR Classification:	Dca

Type	Conductor			Core		Cable		According to the Standard
	Geometry		Resistance (20°C)	Geometry		Geometry		
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	
H05VV5-F	2 x 0,50	16 x 0,21	39,0	0,6	1,8 – 2,5	0,7	5,2 – 6,6	1, 2, 3, 4
H05VV5-F	5 x 0,50	16 x 0,21	39,0	0,6	1,8 – 2,5	0,8	6,8 – 8,6	1, 2, 3, 4
	Filler	-	-	-	*As needed*			
H05VV5-F	2 x 0,75	24 x 0,21	26,0	0,6	1,9 – 2,7	0,8	5,7 – 7,2	1, 2, 3, 4
H05VV5-F	3 x 0,75	24 x 0,21	26,0	0,6	1,9 – 2,7	0,8	6,0 – 7,6	1, 2, 3, 4
H05VV5-F	4 x 0,75	24 x 0,21	26,0	0,6	1,9 – 2,7	0,8	6,6 – 8,3	1, 2, 3, 4
H05VV5-F	5 x 0,75	24 x 0,21	26,0	0,6	1,9 – 2,7	0,9	7,4 – 9,3	1, 2, 3, 4
	Filler	-	-	-	*As needed*			
H05VV5-F	18 x 0,75	24 x 0,21	26,0	0,6	1,9 – 2,7	1,3	13,2 – 16,4	1, 2, 3, 4
	Filler	-	-	-	*As needed*			
H05VV5-F	2 x 1,00	32 x 0,21	19,5	0,6	2,1 – 2,8	0,8	5,9 – 7,5	1, 2, 3, 4
H05VV5-F	3 x 1,00	32 x 0,21	19,5	0,6	2,1 – 2,8	0,8	6,3 – 8,0	1, 2, 3, 4
H05VV5-F	4 x 1,00	32 x 0,21	19,5	0,6	2,1 – 2,8	0,8	6,9 – 8,7	1, 2, 3, 4
H05VV5-F	5 x 1,00	32 x 0,21	19,5	0,6	2,1 – 2,8	0,9	7,8 – 9,8	1, 2, 3, 4
	Filler	-	-	-	*As needed*			
H05VV5-F	12 x 1,00	32 x 0,21	19,5	0,6	2,1 – 2,8	1,2	11,8 – 14,6	1, 2, 3, 4
H05VV5-F	18 x 1,00	32 x 0,21	19,5	0,6	2,1 – 2,8	1,3	14,0 – 17,2	1, 2, 3, 4
	Filler	-	-	-	*As needed*			
H05VV5-F	20 x 1,00	32 x 0,21	19,5	0,6	2,1 – 2,8	1,4	14,9 – 18,4	1, 2, 3, 4
	Filler	-	-	-	*As needed*			
H05VV5-F	2 x 1,50	30 x 0,26	13,3	0,7	2,5 – 3,4	0,8	6,8 – 8,6	1, 2, 3, 4
H05VV5-F	3 x 1,50	30 x 0,26	13,3	0,7	2,5 – 3,4	0,9	7,4 – 9,4	1, 2, 3, 4
H05VV5-F	5 x 1,50	30 x 0,26	13,3	0,7	2,5 – 3,4	1,0	9,1 – 11,4	1, 2, 3, 4
	Filler	-	-	-	*As needed*			
H05VV5-F	12 x 1,50	30 x 0,26	13,3	0,7	2,5 – 3,4	1,3	13,8 – 17,0	1, 2, 3, 4
H05VV5-F	2 x 2,50	50 x 0,26	7,98	0,8	3,1 – 4,1	1,0	8,4 – 10,6	1, 2, 3, 4
H05VV5-F	3 x 2,50	50 x 0,26	7,98	0,8	3,1 – 4,1	1,1	9,2 – 11,4	1, 2, 3, 4
H05VV5-F	4 x 2,50	50 x 0,26	7,98	0,8	3,1 – 4,1	1,1	10,1 – 12,5	1, 2, 3, 4

H05VVC4V5-K

-40°C to 70°C(1)/90°C(2)





DESIGN

Conductor:	CU class 5, bare, acc. IEC 60228
Insulation material:	plasticized PVC, TI2, acc. EN 50363-3
Inner material:	plasticized PVC, TM2, acc. EN 50363-4-1
Jacket Material:	plasticized PVC, TM5, acc. EN 50363-4-1, Oil resistant

ACCORDING TO THE STANDARD

1. EN 50525-2-51
2. UL Style 10012
3. UL Style 21098
4. CSA C22.2 No. 210-15

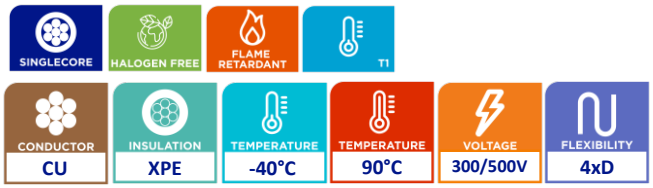
TECHNICAL DATA

Voltage level:	300/500V
Temperature range:	-40°C to 70°C(1)/90°C(2) (1) Acc. HAR (2) Acc. UL/CSA
Min. Bending Radius:	4xD (fixed installation) 12,5xD (occasional flexing)
Nominal Voltage:	300/500 V (acc. HAR) 600 V (acc. UL/CSA)
Test Voltage:	3000 V
CPR:	Dca

Type	Conductor			Core		Geometry	Screen	Cable		According to the Standard
	Geometry		Resistance (20°C)	Geometry				Geometry		
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	Wall thickness nom.	Coverage nom.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[%]	[mm]	[mm]	
H05VVC4V5-K	2 x 0,75	24 x 0,21	26,0	0,6	1,9 – 2,7	0,7	85	0,9	8,0 – 10,0	1, 2, 3, 4
H05VVC4V5-K	3 x 1,00	32 x 0,21	19,5	0,6	2,1 – 2,8	0,7	85	1,0	8,8 – 11,0	1, 2, 3, 4
H05VVC4V5-K	12 x 1,00	32 x 0,21	19,5	0,6	2,1 – 2,8	0,8	85	1,4	14,7 – 18,1	1, 2, 3, 4
H05VVC4V5-K	2 x 1,50	30 x 0,26	13,3	0,7	2,5 – 3,4	0,7	85	1,0	9,3 – 11,6	1, 2, 3, 4
H05VVC4V5-K	4 x 1,50	30 x 0,26	13,3	0,7	2,5 – 3,4	0,7	85	1,1	10,7 – 13,2	1, 2, 3, 4
H05VVC4V5-K	12 x 1,50	30 x 0,26	13,3	0,7	2,5 – 3,4	0,8	85	1,5	16,7 – 20,5	1, 2, 3, 4
H05VVC4V5-K	2 x 2,50	50 x 0,26	7,98	0,8	3,1 – 3,4	0,7	85	1,1	10,7 – 13,3	1, 2, 3, 4

H05Z-K

-40°C ... 90°C



DESIGN

Conductor: CU class 5, bare, acc. IEC 60228
Insulation material: XPE E-beam cross-linked, zero halogen, flame retardant

TECHNICAL DATA

Voltage level: 300/500V
Test voltage: 2 000 V
Temperature range: -40°C ... 90°C
Min. bending radius: 4xD (static)

ACCORDING TO THE STANDARD

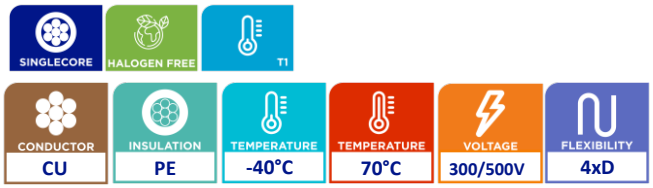
1. EN 50525-3-41

Type	Conductor			Cable		
	Geometry		Resistance (20°C)	Geometry		According to the Standard
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	
H05Z-K	0,50	16 x 0,21	39,00	0,6	2,1 – 2,6	1
H05Z-K	0,75	24 x 0,21	26,00	0,6	2,2 – 2,8	1
H05Z-K	1,00	32 x 0,21	19,50	0,6	2,4 – 2,9	1

Cable type		
Type	Cross-section	Weight approx.
	[mm²]	[g/m]
H05Z-K	0,50	8,7
H05Z-K	0,75	11
H05Z-K	1,00	14

H05Z1-K

-40°C ... 70°C



DESIGN

Conductor: CU class 5, bare, acc. IEC 60228
Insulation material: PE, zero halogen

TECHNICAL DATA

Voltage level: 300/500V
Test voltage: 2 000 V
Temperature range: -40°C ... 70°C
Min. bending radius: 4xD (static)

ACCORDING TO THE STANDARD

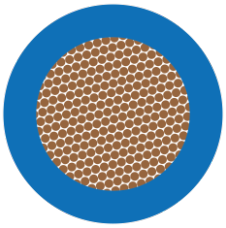
1. EN 50525-3-31

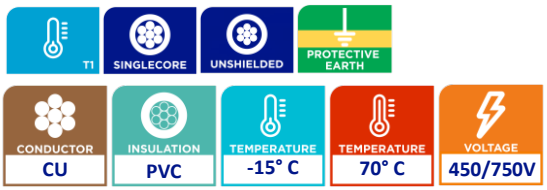
Type	Conductor			Cable		
	Geometry		Resistance (20°C)	Geometry		According to the Standard
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	
H05Z1-K	0,50	16 x 0,21	39,00	0,6	2,1 – 2,5	1
H05Z1-K	0,75	24 x 0,21	26,00	0,6	2,2 – 2,7	1
H05Z1-K	1,00	32 x 0,21	19,50	0,6	2,4 – 2,8	1

Cable type		
Type	Cross-section	Weight approx.
	[mm²]	[g/m]
H05Z1-K	0,50	8,7
H05Z1-K	0,75	11
H05Z1-K	1,00	14

H07V-K

-15°C ... 70°C





DESIGN

Conductor: CU class 5, bare, acc. IEC 60228
Insulation material: plasticized PVC

ACCORDING TO THE STANDARD

1. EN 50525-2-31

TECHNICAL DATA

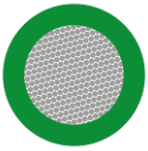
Voltage level: 450/750V
Temperature range: -15°C ... 70°C
Shore A 15'': 85±5

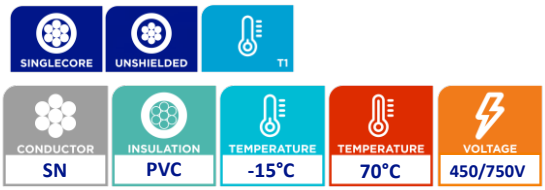
Type	Conductor			Cable		
	Geometry		Resistance (20°C)	Geometry		According to the Standard
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	
	[mm²]	N* x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	
H07V-K	1,50	30 x 0,26	13,30	0,7	2,8 – 3,4	1
H07V-K	2,50	50 x 0,26	7,98	0,8	3,4 – 4,1	1
H07V-K	4,00	56 x 0,31	4,95	0,8	3,9 – 4,8	1
H07V-K	6,00	84 x 0,31	3,30	0,8	4,4 – 5,3	1
H07V-K	10,00	80 x 0,41	1,91	1,00	5,7 – 6,8	1
H07V-K	16,00	126 x 0,41	1,21	1,00	6,7 – 8,1	1
H07V-K	25,00	196 x 0,41	0,78	1,20	8,4 – 10,2	1
H07V-K	35,00	276 x 0,41	0,554	1,20	9,7 – 11,7	1
H07V-K	50,00	396 x 0,41	0,386	1,40	11,5 – 13,9	1
H07V-K	70,00	532 x 0,51	0,272	1,40	13,2 – 16,0	1
H07V-K	95,00	475 x 0,51	0,206	1,60	15,1 – 18,2	1

Cable type		
Type	Cross-section	Weight Approx.
	[mm²]	[g/m]
H07V-K	1,50	19
H07V-K	2,50	30
H07V-K	4,00	44
H07V-K	6,00	60
H07V-K	10,00	103
H07V-K	16,00	155
H07V-K	25,00	240
H07V-K	35,00	335
H07V-K	50,00	486
H07V-K	70,00	670
H07V-K	95,00	898

H07V-K Sn

-15°C to 70°C





DESIGN

Conductor: CU class 5, Tinned, acc. IEC 60228
Insulation material: plasticized PVC

TECHNICAL DATA

Voltage level: 450/750V
Temperature range: -15°C to 70°C

ACCORDING TO THE STANDARD

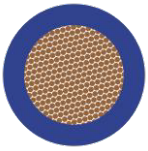
1. EN 50525-2-31

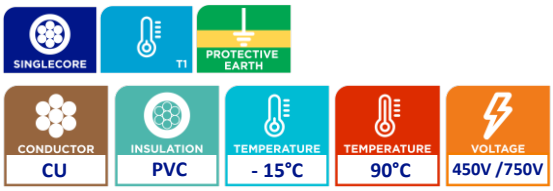
Type	Conductor			Cable		
	Geometry		Resistance (20°C)	Geometry		According to the Standard
	Cross-section	Construction	Tinned max.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	
H07V-K Sn	1,50	30 x 0,26	13,7	0,7	2,8 – 3,4	1
H07V-K Sn	2,50	50 x 0,26	8,21	0,8	3,4 – 4,1	1
H07V-K Sn	4,00	56 x 0,31	5,09	0,8	3,9 – 4,8	1
H07V-K Sn	6,00	84 x 0,31	3,39	0,8	4,4 – 5,3	1

Cable type		
Type	Cross-section	Weight approx.
	[mm²]	[g/m]
H07V-K Sn	1,50	19
H07V-K Sn	2,50	30
H07V-K Sn	4,00	44
H07V-K Sn	6,00	60

H07V2-K

-15°C to 90°C





DESIGN

Conductor: CU class 5, bare, acc. IEC 60228
Insulation material: plasticized PVC

TECHNICAL DATA

Voltage level: 450/750V
Temperature range: -15°C to 90°C

ACCORDING TO THE STANDARD

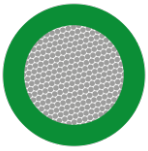
1. EN 50525-2-31

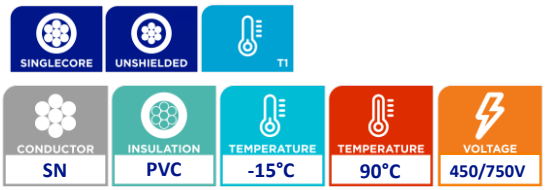
Type	Conductor			Cable		
	Geometry		Resistance (20°C)	Geometry		According to the Standard
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	
H07V2-K	1,50	30 x 0,26	13,30	0,7	2,8 – 3,4	1
H07V2-K	2,50	50 x 0,26	7,98	0,8	3,4 – 4,1	1
H07V2-K	4,00	56 x 0,31	4,95	0,8	3,9 – 4,8	1
H07V2-K	6,00	84 x 0,31	3,30	0,8	4,4 – 5,3	1
H07V2-K	10,00	80 x 0,41	1,91	1,00	5,7 – 6,8	1
H07V2-K	16,00	126 x 0,41	1,21	1,00	6,7 – 8,1	1
H07V2-K	25,00	196 x 0,41	0,78	1,20	8,4 – 10,2	1
H07V2-K	35,00	276 x 0,41	0,554	1,20	9,7 – 11,7	1

Cable type		
Type	Cross-section	Weight Approx.
	[mm²]	[g/m]
H07V2-K	1,50	19
H07V2-K	2,50	29
H07V2-K	4,00	43
H07V2-K	6,00	59
H07V2-K	10,00	101
H07V2-K	16,00	153
H07V2-K	25,00	237
H07V2-K	35,00	331

H07V2-K Sn

-15°C to 90°C





DESIGN

Conductor:	CU class 5, Tinned, acc. IEC 60228
Insulation material:	plasticized PVC

TECHNICAL DATA

Voltage level:	450/750V
Temperature range:	-15°C to 90°C
Shore A 15'':	90±5

ACCORDING TO THE STANDARD

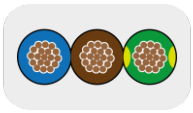
1. EN 50525-2-31

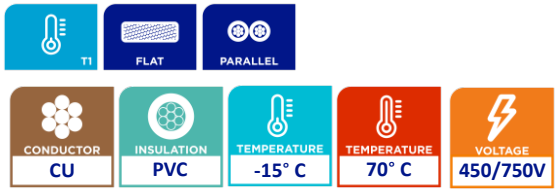
Type	Conductor / Leiter			Cable		
	Geometry		Resistance (20°C)	Geometry		According to the Standard
	Cross-section	Construction	Tinned max.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	
H07V2-K Sn	1,50	30 x 0,26	13,7	0,7	2,8 – 3,4	1
H07V2-K Sn	2,50	50 x 0,26	8,21	0,8	3,4 – 4,1	1
H07V2-K Sn	4,00	56 x 0,31	5,09	0,8	3,9 – 4,8	1
H07V2-K Sn	6,00	84 x 0,31	3,39	0,8	4,4 – 5,3	1

Cable type		
Type	Cross-section	Weight approx.
	[mm²]	[g/m]
H07V2-K Sn	1,50	19
H07V2-K Sn	2,50	29
H07V2-K Sn	4,00	43
H07V2-K Sn	6,00	59

H07VVH6-F

-15°C … 70°C





DESIGN

Conductor:	CU class 5, bare, acc. IEC 60228
Insulation material:	plasticized PVC, acc. EN 50363-3, TI2
Jacket Material:	plasticized PVC, acc. EN 50363-4-1, TM2

CONSTRUCTION

PVC jacketed cable with PVC single cores.

TECHNICAL DATA

Voltage level:	450/750 V
Temperature range:	-15°C … 70°C

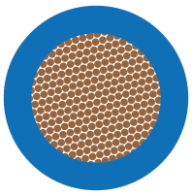
ACCORDING TO THE STANDARD

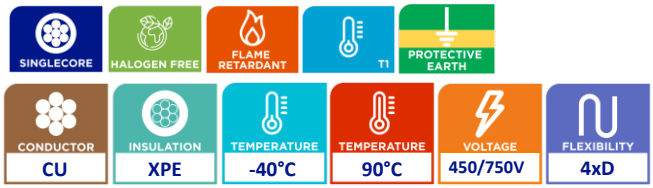
1. EN 50214

Type	Conductor			Core		Cable	
	Geometry		Resistance (20°C)	Geometry		Geometry	According to the Standard
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	
H07VVH6-F	3 x 2,50	50 x 0,26	7,98	0,8	3,4 – 4,1	[13,8 x 15,9] – [5,4 x 6,1]	1

H07Z-K

-40°C ... 90°C





DESIGN

Conductor: CU class 5, bare, acc. IEC 60228
Insulation material: XPE E-beam cross-linked, zero halogen, flame retardant

ACCORDING TO THE STANDARD

1. EN 50525-3-41

TECHNICAL DATA

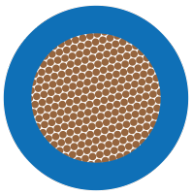
Voltage level: 450/750V
Test voltage: 2 500 V
Temperature range: -40°C ... 90°C
Min. bending radius: 4xD (static)

Type	Conductor			Cable		
	Geometry		Resistance (20°C)	Geometry		According to the Standard
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	
H07Z-K	1,50	30 x 0,26	13,30	0,7	2,8 – 3,5	1
H07Z-K	2,50	50 x 0,26	7,98	0,8	3,4 – 4,3	1
H07Z-K	4,00	56 x 0,31	4,95	0,8	3,9 – 4,9	1
H07Z-K	6,00	84 x 0,31	3,30	0,8	4,4 – 5,5	1
H07Z-K	10,00	80 x 0,41	1,91	1,0	5,7 – 7,1	1
H07Z-K	16,00	126 x 0,41	1,21	1,0	6,7 – 8,4	1
H07Z-K	25,00	196 x 0,41	0,780	1,2	8,4 – 10,6	1
H07Z-K	50,00	396 x 0,41	0,386	1,4	11,5 – 14,4	1
H07Z-K	95,00	475 x 0,51	0,206	1,6	15,1 – 18,8	1

Cable type		
Type	Cross-section	Weight approx.
	[mm²]	[g/m]
H07Z-K	1,50	20
H07Z-K	2,50	32
H07Z-K	4,00	47
H07Z-K	6,00	65
H07Z-K	10,00	110
H07Z-K	16,00	165
H07Z-K	25,00	254
H07Z-K	50,00	489
H07Z-K	95,00	907

H07Z1-K

-40°C to 70°C



DESIGN

Conductor: CU class 5, bare, acc. IEC 60228
Insulation material: PE, zero halogen

TECHNICAL DATA

Voltage level: 450/750V
Test voltage: 2 500 V
Temperature range: -40°C ... 70°C
Min. bending radius: 4xD (static)

ACCORDING TO THE STANDARD

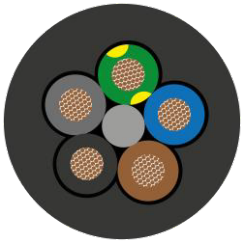
1. EN 50525-3-31

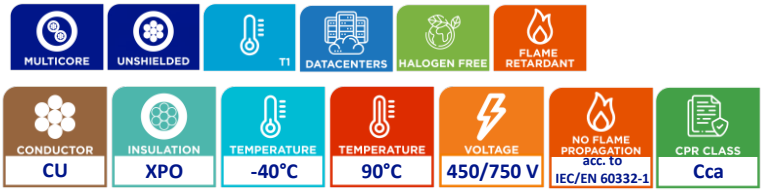
Type	Conductor			Cable		
	Geometry		Resistance (20°C)	Geometry		According to the Standard
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	
H07Z1-K	1,50	30 x 0,26	13,30	0,7	2,8 – 3,4	1
H07Z1-K	2,50	50 x 0,26	7,98	0,8	3,4 – 4,1	1
H07Z1-K	4,00	56 x 0,31	4,95	0,8	3,9 – 4,8	1
H07Z1-K	6,00	84 x 0,31	3,30	0,8	4,4 – 5,3	1
H07Z1-K	10,00	80 x 0,41	1,91	1,0	5,7 – 6,8	1
H07Z1-K	16,00	126 x 0,41	1,21	1,0	6,7 – 8,1	1

Cable type		
Type	Cross-section	Weight Approx.
	[mm²]	[g/m]
H07Z1-K	1,50	20
H07Z1-K	2,50	32
H07Z1-K	4,00	45
H07Z1-K	6,00	63
H07Z1-K	10,00	108
H07Z1-K	16,00	162

H07ZZ-F

-40°C ... 90°C





DESIGN

Conductor:	CU class 5, bare, acc. IEC 60228
Insulation material:	XPE E-beam cross-linked, low smoke, zero halogen, flame retardant
Jacket Material:	XPO E-beam cross-linked, low smoke, zero halogen, flame retardant

TECHNICAL DATA

Voltage level:	450/750V
Test voltage:	2 500 V
Temperature range:	-40°C ... 90°C
Max. short-circuit temperature:	250°C (max. 5 s)
Min. bending radius:	3xD (D < 12mm) 4xD (D ≥ 12 mm)
CPR Classification:	Cca

APPLICATION

Tray cable.

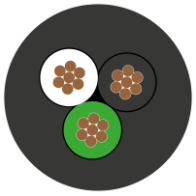
ACCORDING TO THE STANDARD

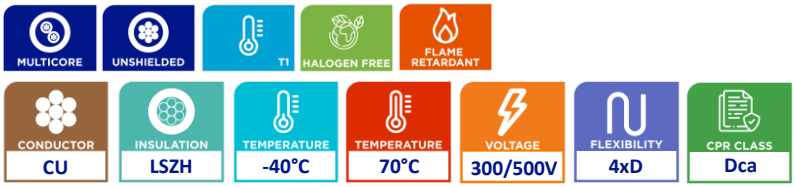
1. EN 50525-3-21
2. According client´s specifications

Type	Conductor			Resistance (20°C)	Core		Cable			According to the Standard
	Geometry				Geometry		Geometry			
	Cross-section	Current Carrying Capacity min.	Construction	Bare max.	Wall thickness nom.	Diameter	Lay length max.	Wall thickness nom.	Diameter	
	[mm²]	[A]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	[mm]	
H07ZZ-F	5 x 1,00	17	32 x 0,21	19,5	0,8	2,4 – 3,3	180	1,6	10,2 – 13,1	1
H07ZZ-F	5 x 6,00	54	84 x 0,31	3,30	1,0	4,5 – 5,8	250	2,5	17,5 – 20,5	1, 2
H07ZZ-F	1 x 120,00	383	608 x 0,51	0,161	1,8	16,8 – 20,7	-	3,0	22,8 – 28,6	1

HSLH 300/500V

-40°C to 70°C





DESIGN

Conductor: CU class 5, bare, acc. IEC 60228
Insulation Material: LSZH
Jacket Material: LSZH, Flame retardant

TECHNICAL DATA

Voltage level: 300/500 V
Temperature range: -40°C to 70°C
Min. bending radius: 4xD (fixed installation)
15xD (mobile installation)
CPR Classification: Dca

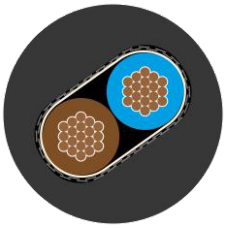
ACCORDING TO THE STANDARD

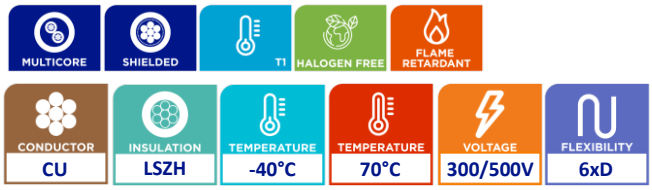
1. VDE 0207-363-7

Type	Conductor			Core		Cable	
	Geometry		Resistance (20°C)	Geometry		Geometry	
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	Wall thickness nom.	Diameter
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]
HSLH	3 x 0,75	24 x 0,21	26,0	0,4	1,8 – 2,0	0,7	5,0 – 6,4
HSLH	5 x 0,75	24 x 0,21	26,0	0,4	1,8 – 2,0	0,8	6,2 – 7,8
HSLH	7 x 0,75	24 x 0,21	26,0	0,4	1,8 – 2,0	0,9	6,9 – 8,7
HSLH	9 x 0,75	24 x 0,21	26,0	0,4	1,8 – 2,0	1,0	8,6 – 10,7
HSLH	12 x 0,75	24 x 0,21	26,0	0,4	1,8 – 2,0	1,0	9,2 – 11,5
HSLH	3 x 1,00	32 x 0,21	19,5	0,4	1,9 – 2,2	0,8	5,5 – 7,0
HSLH	4 x 1,00	32 x 0,21	19,5	0,4	1,9 – 2,2	0,8	6,0 – 7,6
HSLH	5 x 1,00	32 x 0,21	19,5	0,4	1,9 – 2,2	0,9	6,6 – 8,3
HSLH	7 x 1,00	32 x 0,21	19,5	0,4	1,9 – 2,2	0,9	7,3 – 9,2
HSLH	3 x 1,50	30 x 0,26	13,3	0,4	2,1 – 2,5	0,8	6,0 – 7,6

HSLCH

-40°C to 70°C





DESIGN

Conductor:	CU class 5, bare, acc. IEC 60228
Insulation material:	LSZH
Jacket Material:	LSZH, Flame retardant

CONSTRUCTION

LSZH multi-core cable with PET foil, tinned copper braiding screen and LSZH jacket.

ACCORDING TO THE STANDARD

1. VDE 0207-363-7

TECHNICAL DATA

Temperature range:	-40°C to 70°C (for fixed installation) -5°C to 70°C (for occasionally moved)
Rated voltage:	300/500 V
Test Voltage:	3 000 V
Min. Bending Radius:	6xD (fixed installation) 15xD (occasional moved)

Type	Conductor			Core		Screen	Cable		
	Geometry		Resistance (20°C)	Geometry			Geometry		According to the Standard
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	Coverage nom.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[%]	[mm]	[mm]	
HSLCH	2 x 0,75	24 x 0,21	26,0	0,4	1,8 – 2,0	85	0,9	5,6 – 6,4	1
HSLCH	3 x 0,75	24 x 0,21	26,0	0,4	1,8 – 2,0	85	0,9	5,9 – 6,7	1
HSLCH	2 x 1,00	32 x 0,21	19,5	0,4	1,9 – 2,1	85	0,9	5,9 – 6,7	1
HSLCH	5 x 1,00	32 x 0,21	19,5	0,4	1,9 – 2,1	85	0,9	7,5 – 8,5	1
HSLCH	4 x 2,50	50 x 0,26	7,98	0,5	2,8 – 3,2	85	1,1	9,3 – 10,5	1

LiYY

-40°C to 105°C

MULTICORE | UNSHIELDED | REDUCED | T2

CONDUCTOR	INSULATION	TEMPERATURE	TEMPERATURE	VOLTAGE	FLEXIBILITY
CU	PVC	-30°C	105°C	300 V	5xD

DESIGN

Conductor:	CU ETP1 according to EN 13602
Insulation material:	PVC plasticized Reduced wall thickness
Jacket Material:	PVC plasticized

TECHNICAL DATA

Voltage level:	300 V
Temperature range:	-40°C … 105°C/3000h
Min. bending radius:	5xD (static)

CONSTRUCTION

PVC jacketed cable with twisted single cores.

ACCORDING TO THE STANDARD

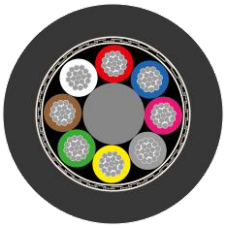
1. According client's specification

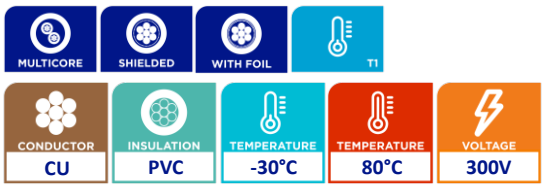
Type	Conductor				Core		Cable		
	Geometry			Resistance (20°C)	Geometry		Geometry		
	Cross-section	Construction	Diameter max.	Bare max.	Wall thickness min./nom.	Diameter	Lay length	Wall thickness min./nom.	Diameter
	[mm²]	N x Ømax.[mm] *Ønom	[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	[mm]
LiYY/0,10	4 x 0,14	18 x 0,10*	-	150	-	0,92 – 1,08	30 ±3	-	3,35 – 3,65
LiYY	2 x 0,25	14 x 0,15	0,7	77,8	-	1,23 – 1,37	40 ±5	-	3,6 – 4,0
LiYY	3 x 0,25	14 x 0,15	0,7	77,8	-	1,23 – 1,37	50 ±5	-	3,8 – 4,2
LiYY	4 x 0,25	14 x 0,15	0,7	77,8	-	1,23 – 1,37	70 ±5	-	4,1 – 4,5
LiYY	5 x 0,25	14 x 0,15	0,7	77,8	-	1,23 – 1,37	70 ±5	-	4,5 – 4,9
	Filler	-	-	-	-	*As needed*			
LiYY	6 x 0,25	14 x 0,15	0,7	77,8	-	1,23 – 1,37	70 ±5	-	4,9 – 5,3
	Filler	-	-	-	-	*As needed*			
LiYY	8 x 0,25	14 x 0,15	0,7	77,8	-	1,23 – 1,37	80 ±5	-	6,0 – 6,4
	Filler	-	-	-	-	*As needed*			
LiYY	10 x 0,25	14 x 0,15	0,7	77,8	-	1,23 – 1,37	80 ±5	-	6,6 – 7,0
LiYY/0,16	2 x 0,34 /1,35	22 x 0,16	-	53,0	-/0,28	1,30 – 1,40	70 ±5	-/0,60	4,1 – 4,3
LiYY/0,16	2 x 0,34 /1,5	22 x 0,16	-	53,0	-/0,40	1,45 – 1,55	70 ±5	-/0,60	4,1 – 4,3
LiYY	2 x 0,34	7 x 0,26	0,9	56,0	-	1,4 – 1,6	70 ±5	-	4,5 – 4,9
LiYY/0,16	3 x 0,34	22 x 0,16	-	53,0	-/0,40	1,4 – 1,6	70 ±5	-/0,65	4,4 – 4,6
LiYY	3 x 0,34	7 x 0,26	0,9	56,0	-	1,4 – 1,6	70 ±5	-	4,7 – 5,1
LiYY	4 x 0,34	7 x 0,26	0,9	56,0	-	1,4 – 1,6	70 ±5	-	5,1 – 5,5
LiYY	5 x 0,34	7 x 0,26	0,9	56,0	-	1,4 – 1,6	70 ±5	-	5,3 – 5,7
	Filler	-	-	-	-	*As needed*			
LiYY	20 x 0,34	7 x 0,26	0,9	56,0	-	1,4 – 1,6	80 ±5	-	8,5 – 9,5
LiYY	2 x 0,38	12 x 0,21	-	54,5	0,20/-	1,3 – 1,6	70 ±5	0,41/-	4,0 – 4,6

Cable type		
Type	Cross-section [mm²]	Weight Approx. [g/m]
LiYY/0,10	4 x 0,14	17
LiYY	2 x 0,25	19
LiYY	3 x 0,25	23
LiYY	4 x 0,25	27
LiYY	5 x 0,25	33
LiYY	6 x 0,25	39
LiYY	8 x 0,25	54
LiYY	10 x 0,25	67
LiYY/0,16	2 x 0,34 /1,35	24
LiYY/0,16	2 x 0,34 /1,5	25
LiYY	2 x 0,34	29
LiYY/0,16	3 x 0,34	30
LiYY	3 x 0,34	33
LiYY	4 x 0,34	40
LiYY	5 x 0,34	45
LiYY	20 x 0,34	138
LiYY	2 x 0,38	25

LiYCY UL2464

-30°C ... 80°C





DESIGN

Conductor:	Tinned copper acc. to IEC60228, class 5
Insulation material:	PVC TI1 according to DIN VDE 0281, part 1; HD 21.1
Jacket material:	PVC TM2 according to DIN VDE 0281, part 1; HD 21.1

TECHNICAL DATA

Voltage level:	300 V AC
Test voltage:	1500 V AC
Temperature range:	-30°C ... 80°C (for stationary use) -10°C ... 80°C (for flexible use)

CONSTRUCTION

PVC multi-core cable with tinned copper braiding screen and PVC jacket.

ACCORDING TO THE STANDARD

1. UL 1061 and UL 2464

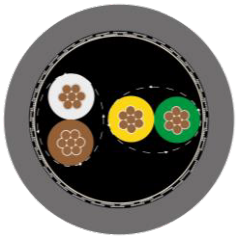
Type	Conductor			Core	Screen		Cable			
	Geometry		Resistance (20°C)	Geometry			Geometry			According to the Standard
	Cross-section	Construction	Tinned max.	Diameter	Diameter nom.	Coverage min.	Lay length	Wall thickness min./nom.	Diameter	
	[AWG]	N x Ønom.[mm]	[mΩ/m]	[mm]	[mm]	[%]	[mm]	[mm]	[mm]	
LiYCY	4 x 26	7 x 0,16	150*	1,0 ±0,10	0,10	80	30 ±3	0,61/0,76	4,6 ±0,2	1
LiYCY	6 x 26	7 x 0,16	150*	1,0 ±0,10	0,10	80	50 ±3	0,61/0,76	5,2 ±0,2	1
	Filler	-	-	1,0 ±0,10						
LiYCY	8 x 26	7 x 0,16	150*	1,0 ±0,10	0,10	80	60 ±3	0,61/0,76	5,6 ±0,2	1
	Filler	-	-	1,65 ±0,10						
LiYCY	2 x 20	7 x 0,32	36,7 *	1,5 ±0,10	0,10	80	50 ±3	0,61/0,76	6,0 ±0,2	1

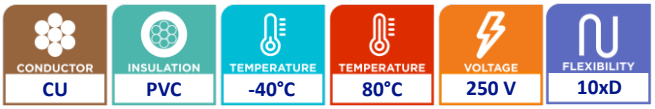
*Max. Electrical resistance before twisted

Cable type			
Type	Cross-section	Color	Weight approx.
	[AWG]		[g/m]
LiYCY	4 x 26	Acc. to the order	30
LiYCY	6 x 26	Acc. to the order	39
LiYCY	8 x 26	Acc. to the order	45
LiYCY	2 x 20	Acc. to the order	49

LiYCY (TP)

-40°C to 80°C





DESIGN

Conductor:	CU class 5, bare, acc. IEC 60228
Insulation material:	PVC plasticized
Jacket Material:	PVC plasticized

SCREENING

Tinned copper braid.

TECHNICAL DATA

Voltage level:	250V
Temperature range:	-40°C to 80°C
Min. bending radius:	10xD (fixed installation) 20xD (mobile installation)

ACCORDING TO THE STANDARD

1. VDE 0812

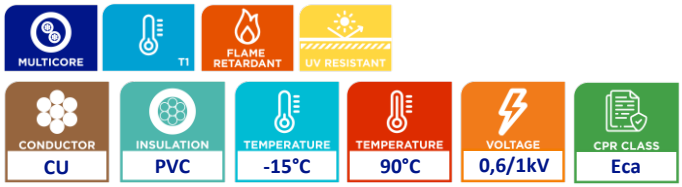
CONSTRUCTION

Screened PVC jacketed cable with twisted single cores and separating tape.

Type	Conductor			Core		Screen	Cable			According to the Standard
	Geometry		Resistance (20°C)	Geometry			Geometry			
	Cross-section	Construction	Bare max.	Wall thickness min.	Diameter	Coverage min.	Lay length	Wall thickness min.	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	%	[mm]	[mm]	[mm]	
Pair	2 x 0,50	16 x 0,20	38,9	0,3	1,65 – 1,95	-	55 ±5	-	-	-
LiYCY (TP)	2 x (2 x 0,50)	-	-	-	-	85	110 ±10	0,9	7,0 – 7,6	1

RV-K

-15°C to 90°C



DESIGN

Conductor:	CU class 5, bare, acc. IEC 60228
Insulation Material:	XPE E-beam cross-linked, zero halogen, flame retardant
Jacket Material:	PVC, flame retardant, UV resistant

TECHNICAL DATA

Voltage level:	0,6/1 kV
Temperature range:	-15°C to 90°C
CPR Classification:	Eca

ACCORDING TO THE STANDARD

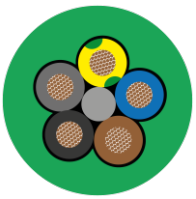
1. UNE 21123-2
2. IEC 60502-1

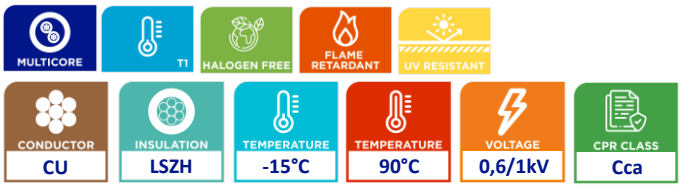
Type	Conductor			Core		Cable	
	Geometry		Resistance (20°C)	Geometry		Geometry	
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter nom.	Wall thickness nom.	Diameter nom.
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]
Single	1,50	30 x 0,26	13,3	0,7	2,9	-	-
Single	2,50	50 x 0,26	7,98	0,7	3,4	-	-
Single	4,00	56 x 0,31	4,95	0,7	3,9	-	-
Single	6,00	84 x 0,31	3,30	0,7	4,5	-	-
Single	10,00	80 x 0,41	1,91	0,7	5,4	-	-
Single	16,00	126 x 0,41	1,21	0,7	6,6	-	-
Single	25,00	196 x 0,41	0,780	0,9	8,3	-	-
Single	35,00	276 x 0,41	0,554	0,9	9,2	-	-
Single	50,00	396 x 0,41	0,386	1,0	10,8	-	-
Single	70,00	532 x 0,51	0,272	1,1	13,5	-	-
Single	95,00	475 x 0,51	0,206	1,1	15,1	-	-
Single	120,00	608 x 0,51	0,161	1,2	16,1	-	-
Single	150,00	722 x 0,51	0,129	1,4	18,2	-	-
Single	185,00	836 x 0,51	0,106	1,6	20,1	-	-
RV-K	1x1,50	-	-	-	-	1,4	5,8
RV-K	1x2,50	-	-	-	-	1,4	6,3
RV-K	1x4,00	-	-	-	-	1,4	6,8
RV-K	1x6,00	-	-	-	-	1,4	7,4
RV-K	1x10,00	-	-	-	-	1,4	8,3
RV-K	1x16,00	-	-	-	-	1,4	9,5
RV-K	1x25,00	-	-	-	-	1,4	11,2
RV-K	1x35,00	-	-	-	-	1,4	12,1
RV-K	1x50,00	-	-	-	-	1,4	13,7
RV-K	1x70,00	-	-	-	-	1,4	16,4
RV-K	1x95,00	-	-	-	-	1,5	18,2

Type	Conductor			Core		Cable	
	Geometry		Resistance (20°C)	Geometry		Geometry	
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter nom.	Wall thickness nom.	Diameter nom.
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]
RV-K	1x120,00	-	-	-	-	1,5	19,2
RV-K	1x150,00	-	-	-	-	1,6	21,5
RV-K	1x185,00	-	-	-	-	1,6	23,4
RV-K	2x1,50	-	-	-	-	1,8	9,5
RV-K	2x2,50	-	-	-	-	1,8	10,5
RV-K	2x4,00	-	-	-	-	1,8	11,5
RV-K	2x6,00	-	-	-	-	1,8	12,7
RV-K	2x10,00	-	-	-	-	1,8	14,5
RV-K	2x16,00	-	-	-	-	1,8	16,9
RV-K	2x25,00	-	-	-	-	1,8	20,3
RV-K	2x35,00	-	-	-	-	1,8	22,1
RV-K	3x1,50	-	-	-	-	1,8	10,0
RV-K	3x2,50	-	-	-	-	1,8	11,1
RV-K	3x4,00	-	-	-	-	1,8	12,1
RV-K	3x6,00	-	-	-	-	1,8	13,4
RV-K	3x10,00	-	-	-	-	1,8	15,4
RV-K	3x16,00	-	-	-	-	1,8	18,0
RV-K	3x25,00	-	-	-	-	1,8	21,6
RV-K	3x35,00	-	-	-	-	1,8	23,6
RV-K	4x1,50	-	-	-	-	1,8	10,8
RV-K	4x2,50	-	-	-	-	1,8	12,0
RV-K	4x4,00	-	-	-	-	1,8	13,2
RV-K	4x6,00	-	-	-	-	1,8	14,6
RV-K	4x10,00	-	-	-	-	1,8	16,8
RV-K	4x16,00	-	-	-	-	1,8	19,7
RV-K	4x25,00	-	-	-	-	1,8	23,8
RV-K	5x1,50	-	-	-	-	1,8	11,6
RV-K	5x2,50	-	-	-	-	1,8	12,9
RV-K	5x4,00	-	-	-	-	1,8	14,3
RV-K	5x6,00	-	-	-	-	1,8	15,9
RV-K	5x10,00	-	-	-	-	1,8	18,3
RV-K	5x16,00	-	-	-	-	1,8	21,6

RZ1-K

-15°C to 90°C





DESIGN

Conductor:	CU class 5, bare, acc. IEC 60228
Insulation Material:	XPE E-beam cross-linked, zero halogen, flame retardant
Jacket Material:	LSZH, UV resistant

TECHNICAL DATA

Voltage level:	0,6/1 kV
Temperature range:	-15°C to 90°C
CPR Classification:	Cca

ACCORDING TO THE STANDARD

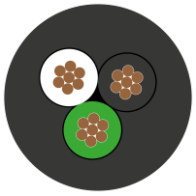
1. UNE 21123-4
2. IEC 60502-1

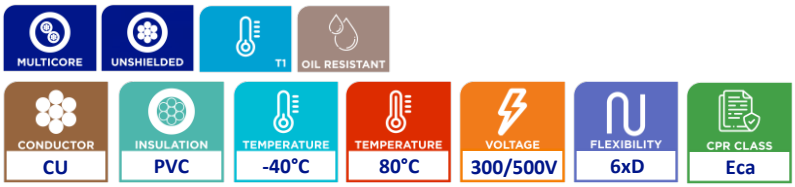
Type	Conductor			Core		Cable	
	Geometry		Resistance (20°C)	Geometry		Geometry	
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter nom.	Wall thickness nom.	Diameter nom.
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]
Single	1,50	30 x 0,26	13,3	0,7	2,9	-	-
Single	2,50	50 x 0,26	7,98	0,7	3,4	-	-
Single	4,00	56 x 0,31	4,95	0,7	3,9	-	-
Single	6,00	84 x 0,31	3,30	0,7	4,5	-	-
Single	10,00	80 x 0,41	1,91	0,7	5,4	-	-
Single	16,00	126 x 0,41	1,21	0,7	6,6	-	-
Single	25,00	196 x 0,41	0,780	0,9	8,3	-	-
Single	35,00	276 x 0,41	0,554	0,9	9,2	-	-
Single	50,00	396 x 0,41	0,386	1,0	10,8	-	-
Single	70,00	532 x 0,51	0,272	1,1	13,5	-	-
Single	95,00	475 x 0,51	0,206	1,1	15,1	-	-
Single	120,00	608 x 0,51	0,161	1,2	16,1	-	-
Single	150,00	722 x 0,51	0,129	1,4	18,2	-	-
Single	185,00	836 x 0,51	0,106	1,6	20,1	-	-
RZ1-K	1x1,50	-	-	-	-	1,4	5,8
RZ1-K	1x2,50	-	-	-	-	1,4	6,3
RZ1-K	1x4,00	-	-	-	-	1,4	6,8
RZ1-K	1x6,00	-	-	-	-	1,4	7,4
RZ1-K	1x10,00	-	-	-	-	1,4	8,3
RZ1-K	1x16,00	-	-	-	-	1,4	9,5
RZ1-K	1x25,00	-	-	-	-	1,4	11,2
RZ1-K	1x35,00	-	-	-	-	1,4	12,1
RZ1-K	1x50,00	-	-	-	-	1,4	13,7
RZ1-K	1x70,00	-	-	-	-	1,4	16,4
RZ1-K	1x95,00	-	-	-	-	1,5	18,2

Type	Conductor			Core		Cable	
	Geometry		Resistance (20°C)	Geometry		Geometry	
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter nom.	Wall thickness nom.	Diameter nom.
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]
RZ1-K	1x120,00	-	-	-	-	1,5	19,2
RZ1-K	1x150,00	-	-	-	-	1,6	21,5
RZ1-K	1x185,00	-	-	-	-	1,6	23,4
RZ1-K	2x1,50	-	-	-	-	1,8	9,5
RZ1-K	2x2,50	-	-	-	-	1,8	10,5
RZ1-K	2x4,00	-	-	-	-	1,8	11,5
RZ1-K	2x6,00	-	-	-	-	1,8	12,7
RZ1-K	2x10,00	-	-	-	-	1,8	14,5
RZ1-K	2x16,00	-	-	-	-	1,8	16,9
RZ1-K	2x25,00	-	-	-	-	1,8	20,3
RZ1-K	2x35,00	-	-	-	-	1,8	22,1
RZ1-K	3x1,50	-	-	-	-	1,8	10,0
RZ1-K	3x2,50	-	-	-	-	1,8	11,1
RZ1-K	3x4,00	-	-	-	-	1,8	12,1
RZ1-K	3x6,00	-	-	-	-	1,8	13,4
RZ1-K	3x10,00	-	-	-	-	1,8	15,4
RZ1-K	3x16,00	-	-	-	-	1,8	18,0
RZ1-K	3x25,00	-	-	-	-	1,8	21,6
RZ1-K	3x35,00	-	-	-	-	1,8	23,6
RZ1-K	4x1,50	-	-	-	-	1,8	10,8
RZ1-K	4x2,50	-	-	-	-	1,8	12,0
RZ1-K	4x4,00	-	-	-	-	1,8	13,2
RZ1-K	4x6,00	-	-	-	-	1,8	14,6
RZ1-K	4x10,00	-	-	-	-	1,8	16,8
RZ1-K	4x16,00	-	-	-	-	1,8	19,7
RZ1-K	4x25,00	-	-	-	-	1,8	23,8
RZ1-K	5x1,50	-	-	-	-	1,8	11,6
RZ1-K	5x2,50	-	-	-	-	1,8	12,9
RZ1-K	5x4,00	-	-	-	-	1,8	14,3
RZ1-K	5x6,00	-	-	-	-	1,8	15,9
RZ1-K	5x10,00	-	-	-	-	1,8	18,3
RZ1-K	5x16,00	-	-	-	-	1,8	21,6

YSLY 300/500V

-40°C to 80°C





DESIGN

Conductor:	CU class 5, bare, acc. IEC 60228
Insulation Material:	plasticized PVC
Jacket Material:	plasticized PVC, oil resistant

TECHNICAL DATA

Voltage level:	300/500 V
Temperature range:	-40°C to 80°C
Min. bending radius:	6xD (fixed installation) 15xD (mobile installation)
CPR Classification:	Eca

ACCORDING TO THE STANDARD

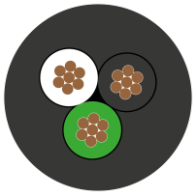
1. VDE 0207-363-3

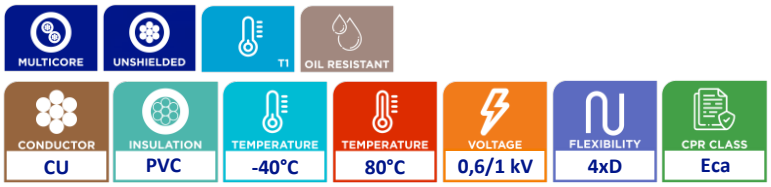
Type	Conductor			Core		Cable	
	Geometry		Resistance (20°C)	Geometry		Geometry	
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	Wall thickness nom.	Diameter
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]
YSLY	2 x 0,50	16 x 0,21	39,0	0,4	1,6 – 1,8	0,7	4,4 – 5,7
YSLY	3 x 0,50	16 x 0,21	39,0	0,4	1,6 – 1,8	0,7	4,7 – 6,0
YSLY	4 x 0,50	16 x 0,21	39,0	0,4	1,6 – 1,8	0,7	5,1 – 6,5
YSLY	2 x 0,75	24 x 0,21	26,0	0,4	1,8 – 2,0	0,7	4,7 – 6,0
YSLY	3 x 0,75	24 x 0,21	26,0	0,4	1,8 – 2,0	0,7	5,0 – 6,4
YSLY	4 x 0,75	24 x 0,21	26,0	0,4	1,8 – 2,0	0,8	5,7 – 7,2
YSLY	5 x 0,75	24 x 0,21	26,0	0,4	1,8 – 2,0	0,8	6,2 – 7,8
YSLY	7 x 0,75	24 x 0,21	26,0	0,4	1,8 – 2,0	0,9	6,9 – 8,7
YSLY	9 x 0,75	24 x 0,21	26,0	0,4	1,8 – 2,0	1,0	8,6 – 10,7
YSLY	2 x 1,00	32 x 0,21	19,5	0,4	1,9 – 2,1	0,7	5,0 – 6,4
YSLY	3 x 1,00	32 x 0,21	19,5	0,4	1,9 – 2,1	0,8	5,5 – 7,0
YSLY	4 x 1,00	32 x 0,21	19,5	0,4	1,9 – 2,1	0,8	6,0 – 7,6
YSLY	5 x 1,00	32 x 0,21	19,5	0,4	1,9 – 2,1	0,9	6,6 – 8,3
YSLY	7 x 1,00	32 x 0,21	19,5	0,4	1,9 – 2,1	0,9	7,3 – 9,2
YSLY	12 x 1,00	32 x 0,21	19,5	0,4	1,9 – 2,1	1,1	10,0 – 12,4
YSLY	2 x 1,50	30 x 0,26	13,3	0,4	2,1 – 2,5	0,8	5,7 – 7,2
YSLY	3 x 1,50	30 x 0,26	13,3	0,4	2,1 – 2,5	0,8	6,0 – 7,6
YSLY	4 x 1,50	30 x 0,26	13,3	0,4	2,1 – 2,5	0,9	6,6 – 8,3
YSLY	5 x 1,50	30 x 0,26	13,3	0,4	2,1 – 2,5	0,9	7,4 – 9,3
YSLY	2 x 2,50	50 x 0,26	7,98	0,5	2,8 – 3,2	0,9	7,1 – 8,9
YSLY	3 x 2,50	50 x 0,26	7,98	0,5	2,8 – 3,2	0,9	7,5 – 9,5
YSLY	4 x 2,50	50 x 0,26	7,98	0,5	2,8 – 3,2	1,0	8,5 – 10,6
YSLY	5 x 2,50	50 x 0,26	7,98	0,5	2,8 – 3,2	1,1	9,3 – 11,6
YSLY	2 x 4,00	56 x 0,31	3,30	0,6	3,6 – 4,0	1,0	8,7 – 10,9
YSLY	4 x 4,00	56 x 0,31	3,30	0,6	3,6 – 4,0	1,1	10,4 – 12,9
YSLY	5 x 4,00	56 x 0,31	3,30	0,6	3,6 – 4,0	1,2	11,6 – 14,4

Cable type		
Type	Cross-section [mm²]	Weight Approx. [g/m]
YSLY	2 x 0,50	33
YSLY	3 x 0,50	40
YSLY	4 x 0,50	48
YSLY	2 x 0,75	42
YSLY	3 x 0,75	51
YSLY	4 x 0,75	65
YSLY	5 x 0,75	78
YSLY	7 x 0,75	101
YSLY	9 x 0,75	138
YSLY	2 x 1,00	48
YSLY	3 x 1,00	61
YSLY	4 x 1,00	75
YSLY	5 x 1,00	94
YSLY	7 x 1,00	118
YSLY	12 x 1,00	208
YSLY	2 x 1,50	64
YSLY	3 x 1,50	78
YSLY	4 x 1,50	102
YSLY	5 x 1,50	122
YSLY	2 x 2,50	102
YSLY	3 x 2,50	128
YSLY	4 x 2,50	164
YSLY	5 x 2,50	200
YSLY	2 x 4,00	160
YSLY	4 x 4,00	257
YSLY	5 x 4,00	316

YSLY 0,6/1kV

-40°C to 80°C





DESIGN

Conductor:	CU class 5, bare, acc. IEC 60228
Insulation Material:	plasticized PVC
Jacket Material:	plasticized PVC, oil resistant

TECHNICAL DATA

Voltage level:	0,6/1 kV
Testing voltage:	4 000 V
Temperature range:	-40°C to 80°C
Min. bending radius:	4xD (fixed installation) 15xD (mobile installation)
CPR Classification:	Eca

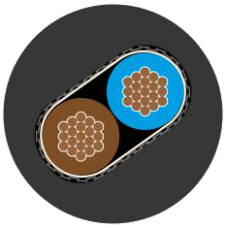
ACCORDING TO THE STANDARD

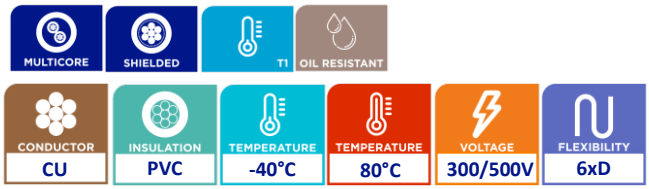
1. Similar to EN 50525-2-51

Type	Conductor			Core		Cable	
	Geometry		Resistance (20°C)	Geometry		Geometry	
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	Wall thickness nom.	Diameter
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]
YSLY	3 x 0,75	24 x 0,21	26,0	0,6	2,15 – 2,45	1,0	6,55 – 7,45
YSLY	4 x 0,75	24 x 0,21	26,0	0,6	2,15 – 2,45	1,0	7,1 – 8,1
YSLY	7 x 0,75	24 x 0,21	26,0	0,6	2,15 – 2,45	1,2	8,7 – 9,9
YSLY	12 x 0,75	24 x 0,21	26,0	0,6	2,15 – 2,45	1,3	11,55 – 13,05
YSLY	3 x 1,00	32 x 0,21	19,5	0,6	2,25 – 2,55	1,0	6,85 – 7,75
YSLY	7 x 1,00	32 x 0,21	19,5	0,6	2,25 – 2,55	1,2	9,3 – 10,5
YSLY	3 x 1,50	30 x 0,26	13,3	0,7	2,7 – 3,1	1,1	8,05 – 9,15
YSLY	4 x 1,50	30 x 0,26	13,3	0,7	2,7 – 3,1	1,2	9,0 – 10,2
YSLY	3 x 2,50	50 x 0,26	7,98	0,8	3,4 – 3,8	1,2	9,4 – 10,6
YSLY	4 x 2,50	50 x 0,26	7,98	0,8	3,4 – 3,8	1,3	10,3 – 11,7

YSLCY

-40°C to 80°C





DESIGN

Conductor:	CU class 5, bare, acc. IEC 60228
Insulation material:	plasticized PVC
Jacket Material:	plasticized PVC, oil resistant

CONSTRUCTION

PVC multi-core cable with PET foil, tinned copper braiding screen and PVC jacket.

ACCORDING TO THE STANDARD

1. VDE 0207-363-3

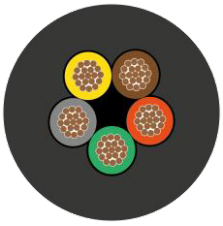
TECHNICAL DATA

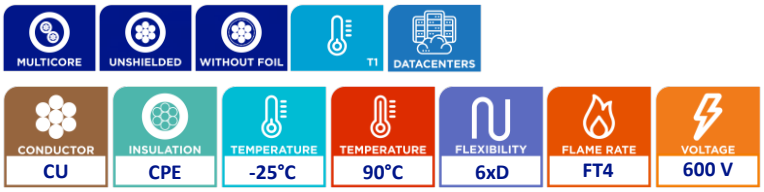
Temperature range:	-40°C to 80°C (for fixed installation) -15°C to 70°C (for occasionally moved)
Rated voltage:	300/500 V
Test Voltage:	4 000 V (core/core) 2 000 V (core/shield)
Min. Bending Radius:	6xD (fixed installation) 15xD (occasional moved)
Mutual capacitance:	≈ 120 nF/km (core/core) ≈ 160 nF/km (core/screen)

Type	Conductor			Core		Screen	Cable		
	Geometry		Resistance (20°C)	Geometry			Geometry		According to the Standard
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	Coverage nom.	Wall thickness nom.	Diameter nom.	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[%]	[mm]	[mm]	
YSLCY	3 x 0,50	16 x 0,21	39,0	0,4	1,4 – 2,0	85	0,8	5,8	1
YSLCY	3 x 0,75	24 x 0,21	26,0	0,4	1,5 – 2,2	85	0,9	6,4	1
YSLCY	4 x 0,75	24 x 0,21	26,0	0,4	1,5 – 2,2	85	0,9	6,9	1
YSLCY	5 x 0,75	24 x 0,21	26,0	0,4	1,5 – 2,2	85	0,9	7,5	1
YSLCY	3 x 1,00	32 x 0,21	19,5	0,4	1,7 – 2,4	85	0,9	6,7	1
YSLCY	5 x 1,00	32 x 0,21	19,5	0,4	1,7 – 2,4	85	0,9	7,8	1
YSLCY	4 x 1,50	30 x 0,26	13,3	0,4	1,9 – 2,7	85	0,9	8,0	1
YSLCY	7 x 1,50	30 x 0,26	13,3	0,4	1,9 – 2,7	85	1,0	9,6	1
YSLCY	4 x 2,50	50 x 0,26	7,98	0,5	2,5 – 3,4	85	1,1	10,0	1
YSLCY	4 x 4,00	56 x 0,31	4,95	0,6	3,3 – 4,3	85	1,2	12,2	1

TC-ER

-25°C ... 90°C





DESIGN

Conductor:	CU ETP1 according to EN 13602, bare
Insulation material:	XPO E-beam cross-linked
Jacket Material:	CPE

APPLICATION

Electrical power and control tray cables

TECHNICAL DATA

Voltage level:	600V
Temperature range:	-25°C ... 90°C
Flame rate:	FT4
Min Bending radius:	6xD (static)

ACCORDING TO THE STANDARD

1. According client´s specifications
2. UL 1277
3. UL 44

CONSTRUCTION

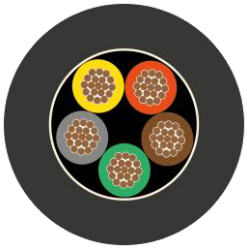
CPE jacketed cable with twisted XPO E-beam cross-linked single cores.

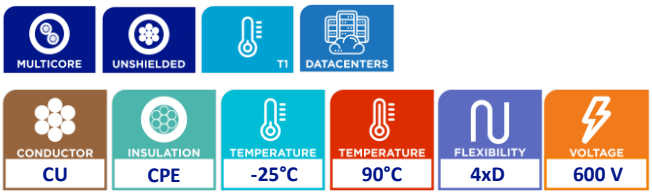
Type	Conductor				Core		Cable			
	Geometry			Resistance (20°C)	Geometry		Geometry			According to the Standard
	Cross-section		Construction	Bare max.	Wall thickness nom.	Diameter	Lay length	Wall thickness nom.	Diameter	
	[AWG]	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	[mm]	
Tray Cable	4 x 8	4 x 8,0	133 x 0,280	2,14	1,14	6,25 – 6,40	250 ±10	1,52	20,50 – 21,50	1, 2
Grounding wire	8	8,0	133 x 0,280	2,14	1,14	6,25 – 6,40				
Tray Cable	4 x 6	4 x 13,0	133 x 0,352	1,35	1,14	7,05 – 7,35	270 ±10	2,03	23,50 – 24,50	1, 2
Grounding wire	6	13,0	133 x 0,352	1,35	1,14	7,05 – 7,35				
Tray Cable	4 x 4	4 x 21,0	133 x 0,444	0,848	1,14	8,20 – 8,50	320 ±10	2,03	26,70 – 27,70	1, 2
Grounding wire	4	21,0	133 x 0,444	0,848	1,14	8,20 – 8,50				

Cable type			
Type	Cross-section	Color	Weight Approx.
	[mm²]		[g/m]
Tray Cable	5 x 8,0	According to the order	624
Tray Cable	5 x 13,0	According to the order	985
Tray Cable	5 x 21,0	According to the order	1403

TC-ER (PVC/CPE)

-25°C … 90°C





DESIGN

Conductor:	CU ETP1 EN 13602, bare
Insulation material:	PVC (THHW or THW-2)
Separator:	Separator tape
Jacket material:	CPE

TECHNICAL DATA

Voltage level:	600 V
Temperature range:	-25°C … 90°C
Min. bending radius:	4xD (static)

CONSTRUCTION

CPE jacketed cable with twisted PVC single cores separated by foil.

APPLICATION

Electrical power and control tray cables.

ACCORDING TO THE STANDARD

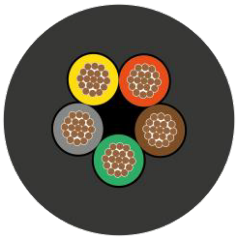
1. UL 1277
2. UL 83
3. According to client's specification

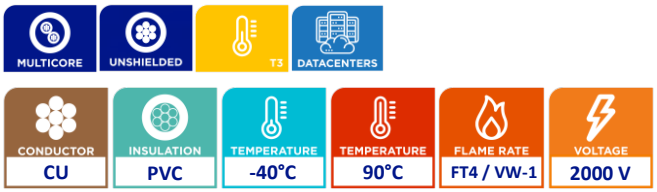
Type	Conductor				Core		Cable		
	Geometry			Resistance (20°C)	Geometry		Geometry		
	Cross-section		Construction	Bare max.	Wall thickness min./ Avg.	Diameter	Lay length	Wall thickness min./ Avg.	Diameter
	[AWG]	[mm²]	N x Ønom.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	[mm]
TC-ER (PVC/CPE)	5 x 6	5 x 13,0	266 x 0,249	1,35	1,02/ 1,14	7,05 – 7,35	280 ± 10	1,63/ 2,03	24,0 – 25,0

Cable type		
Type	Cross-section	Weight Approx.
	[mm²]	[g/m]
TC-ER (PVC/CPE)	5 x 13,0	1 079

TC-ER (XLPE/PVC)

-40°C ... 90°C





DESIGN

Conductor: CU ETP1 according to EN 13602, bare
Insulation material: XLPE
Jacket Material: PVC

APPLICATION

Electrical power and control tray cables.

TECHNICAL DATA

Voltage level: 2000V
Temperature range: -40°C ... 90°C
Flame rate: FT4 / VW-1

ACCORDING TO THE STANDARD

1. According client´s specifications
2. UL 1277
3. UL 44

CONSTRUCTION

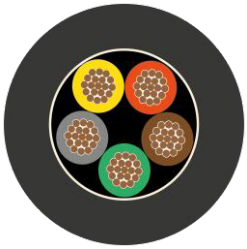
PVC jacketed cable with twisted XLPE single cores.

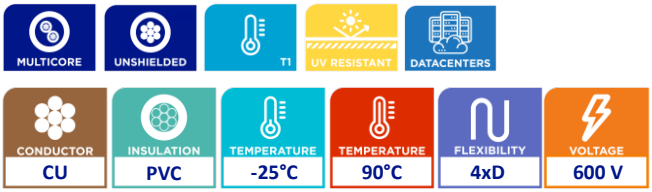
Type	Conductor				Core		Cable			
	Geometry			Resistance (20°C)	Geometry		Geometry			According to the Standard
	Cross-section		Construction	Bare max.	Wall thickness avg min. /min.	Diameter	Lay length	Wall thickness avg min. /min.	Diameter	
	[AWG]	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	[mm]	
TC-ER (XLPE/PVC)	5 x 4	5 x 21,15	260 x 0,320 (260 x 28 AWG)	0,848	1,52 /1,37	9,58 – 9,80	250 ±10	2,03 /1,63	31,75 – 34,92	1, 2, 3

Cable type			
Type	Cross-section [mm²]	Color	Weight approx. [g/m]
TC-ER (XLPE/PVC)	5 x 21,15	BK_GY-BK-BN-BU-GN/YE According to the order	1682

TC-ER (PVC/PVC)

-25°C … 90°C





DESIGN

Conductor:	CU ETP1 EN 13602, bare
Insulation material:	PVC (THHW or THW-2)
Separator:	Separator tape
Jacket material:	PVC UV resistant

TECHNICAL DATA

Voltage level:	600 V
Temperature range:	-25°C … 90°C
Min. bending radius:	4xD (static)

CONSTRUCTION

PVC jacketed cable with twisted PVC single cores separated by foil.

APPLICATION

Electrical power and control tray cables.

ACCORDING TO THE STANDARD

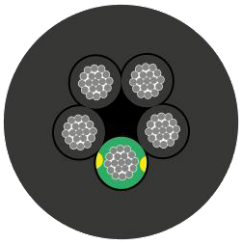
1. UL 1277
2. UL 83
3. According to client's specification

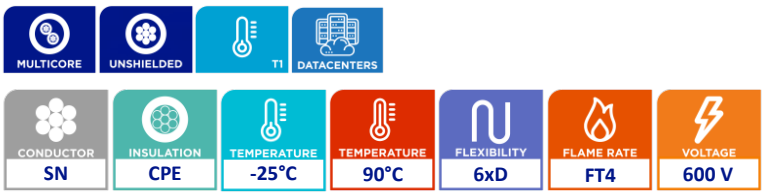
Type	Conductor				Core		Cable		
	Geometry			Resistance (20°C)	Geometry		Geometry		
	Cross-section		Construction	Bare max.	Wall thickness min./ Avg.	Diameter	Lay length	Wall thickness min./ Avg.	Diameter
	[AWG]	[mm²]	N x Ønom.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	[mm]
TC-ER	5 x 10	5 x 5,26	105 x 0,254	3,41	0,69/ 0,76	4,65 – 4,85	180 ± 10	1,22/ 1,52	16,0 – 17,15
TC-ER	5 x 8	5 x 8,37	168 x 0,254	2,14	1,02/ 1,14	6,25 – 6,40	240 ± 10	1,22/ 1,52	19,7 – 21,0
TC-ER	5 x 6	5 x 13,0	266 x 0,249	1,35	1,02/ 1,14	7,05 – 7,35	280 ± 10	1,63/ 2,03	24,0 – 25,0

Cable type		
Type	Cross-section	Weight Approx.
	[mm²]	[g/m]
TC-ER	5 x 5,26	454
TC-ER	5 x 8,37	695
TC-ER	5 x 13,0	1 059

TC-ER Sn

-25°C ... 90°C





DESIGN

Conductor:	CU ETP1 according to EN 13602, tinned
Insulation material:	XPE flame retardant
Jacket Material:	CPE

APPLICATION

Electrical power and control tray cables

TECHNICAL DATA

Voltage level:	600V
Temperature range:	-25°C ... 90°C
Flame rate:	FT4
Min Bending radius:	6xD (static)

ACCORDING TO THE STANDARD

1. According client´s specifications
2. UL 1277

CONSTRUCTION

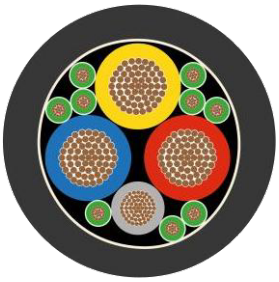
CPE jacketed cable with twisted XPE single cores.

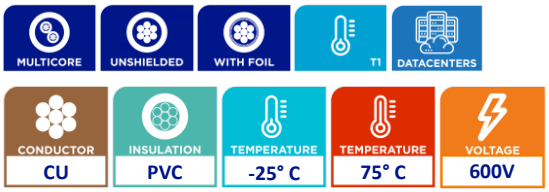
Type	Conductor				Core		Cable			
	Geometry			Resistance (20°C)	Geometry		Geometry			According to the Standard
	Cross-section		Construction	Bare max.	Wall thickness nom.	Diameter	Lay length	Wall thickness nom.	Diameter	
	[AWG]	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	[mm]	
TC-ER Sn	4 x 10	4 x 5,0	105 x 0,251	3,55	0,76	4,40 – 4,80	170 ±10	1,52	15,80 – 16,20	1, 2
Grounding wire	10	5,0	105 x 0,251	3,55	0,76	4,40 – 4,80				

Cable type			
Type	Cross-section	Color	Weight Approx.
	[mm²]		[g/m]
TC-ER Sn	5 x 5,0	According to the order	390

TC-ER-JP

-25°C ... 75°C





DESIGN

Conductor: CU ETP1 according to EN 13602, bare
Insulation material: PVC (THHW/THWN)
Jacket Material: PVC

APPLICATION

Electrical power and control tray cables.

TECHNICAL DATA

Voltage level: 600V
Temperature range: -25°C ... 75°C

ACCORDING TO THE STANDARD

1. UL 1277
2. UL 83
3. According client´s specifications

CONSTRUCTION

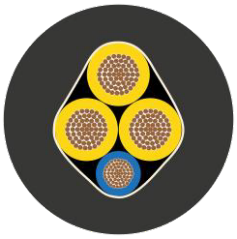
PVC jacketed cable with twisted PVC single cores.

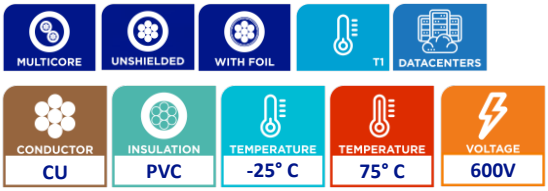
Type	Conductor				Core			Cable				
	Geometry			Resistance (20°C)	Geometry			Geometry				According to the Standard
	Cross-section		Construction	Bare max.	Wall thickness		Diameter	Lay length	Wall thickness		Diameter	
					Average / Min any point	PA Min any point			Average	Min any point		
	[AWG]	[mm²]	N xØnom.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
TC-ER-JP	3 x 4	3 x 21,2	19 x 1,174	0,848	1,52 / 1,37	-	9,15 – 9,35	330 ± 10	2,03	1,63	26,85 – 27,45	1, 2, 3
Grounding wire	1 x 8	1 x 8,0	19 x 0,740	2,14	1,14 / 1,02	-	6,15 – 6,35					
	9 x 18	9 x 0,80	19 x 0,233	21,8	0,38 / 0,33	0,10	2,20 – 2,40					
TC-ER-JP	3 x 3	3 x 26,3	19 x 1,318	0,673	1,52 / 1,37	-	9,90 – 10,10	320 ± 10	2,03	1,63	28,60 – 29,20	1, 2, 3
Grounding wire	1 x 8	1 x 8,0	19 x 0,740	2,14	1,14 / 1,02	-	6,15 – 6,35					
	9 x 18	9 x 0,80	19 x 0,233	21,8	0,38 / 0,33	0,10	2,20 – 2,40					

Cable type			
Type	Cross-section	Color	Weight approx.
	[mm²]		[g/m]
TC-ER-JP	3 x 21,2 + 1 x 8,0 + 9 x 0,80	According to the order	1296
TC-ER-JP	3 x 26,3 + 1 x 8,0 + 9 x 0,80	According to the order	1525

TC-ER-JP (EV)

-25°C ... 75°C





DESIGN

Conductor: CU ETP1 according to EN 13602, bare
Insulation material: PVC (THHW/THWN)
Jacket Material: PVC

APPLICATION

Electrical power and control tray cables.

TECHNICAL DATA

Voltage level: 600V
Temperature range: -25°C ... 75°C

ACCORDING TO THE STANDARD

1. UL 1277
2. UL 83

CONSTRUCTION

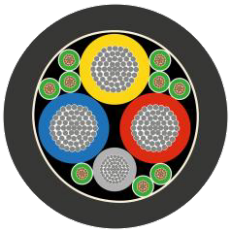
PVC jacketed cable with twisted PVC single cores.

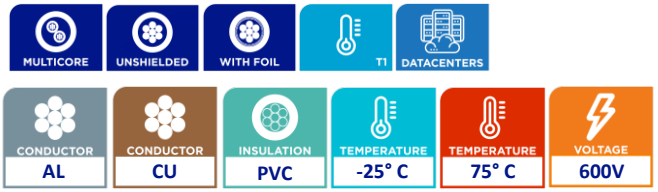
Type	Conductor				Core			Cable				
	Geometry			Resistance (20°C)	Geometry			Geometry				According to the Standard
	Cross-section		Construction	Bare max.	Wall thickness		Diameter	Lay length	Wall thickness		Diameter	
					Average / Min any point	PA Min any point			Average.	Min any point		
	[AWG]	[mm²]	N xØnom.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
TC-ER-JP (EV)	3 x 8	3 x 8,0	19 x 0,740	2,14	1,14 / 1,02	-	6,15 – 6,35	200 ± 10	1,52	1,22	18,40 – 19,00	1, 2
Grounding wire	10	5,0	19 X 0,585	3,41	0,51 / 0,46	0,10	4,25 – 4,45					
TC-ER-JP (EV)	3 x 6	3 x 13,0	19 x 0,930	1,35	1,52 / 1,37	-	7,95 – 8,15	250 ± 10	2,03	1,63	23,90 – 24,50	1, 2
Grounding wire	8	8,0	19 x 0,740	2,14	1,14 / 1,02	-	6,15 – 6,35					

Cable type			
Type	Cross-section	Color	Weight Approx..
	[mm²]		[g/m]
TC-ER-JP (EV)	3 x 8,0 + 1 x 5,0	According to the order	564
TC-ER-JP (EV)	3 x 13,0 + 1 x 8,0	According to the order	924

TC-ER-JP AL

-25°C ... 75°C





DESIGN

Conductor: EAL99,7 according to EN 573-3 and CU ETP1 acc. to EN 13602

Insulation material: PVC (THHW/THWN)

Jacket Material: PVC

APPLICATION

Electrical power and control tray cables.

TECHNICAL DATA

Voltage level: 600V

Temperature range: -25°C ... 75°C

ACCORDING TO THE STANDARD

1. UL 1277
2. UL 83
3. According client´s specifications

CONSTRUCTION

PVC jacketed cable with twisted PVC single cores.

Type	Conductor					Core			Cable				
	Geometry			Resistance (20°C)		Geometry			Geometry				According to the Standard
	Cross-section		Construction	Aluminum Bare max.	Copper Bare max.	Wall thickness		Diameter	Lay length	Wall thickness		Diameter	
						Average / Min any point	PA Min any point			Average	Min any point		
	[AWG]	[mm²]	N x Ønom.[mm]	[mΩ/m]		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
TC-ER-JP AL	3 x 1	3 x 42,2	19 x 1,673	0,693	-	2,03 / 1,83	-	12,75 – 12,95	410 ± 10	2,03	1,63	35,55 – 36,15	1, 2, 3
Grounding wire	1 x 6	1 x 13,3	7 x 1,543	2,211	-	1,52 / 1,37	-	7,95 – 8,15					
	9 x 18	9 x 0,80	19 x 0,233	-	21,8	0,38 / 0,33	0,10	2,20 – 2,40					

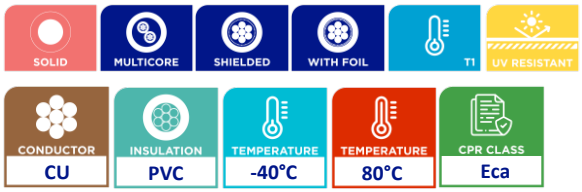
Cable type			
Type	Cross-section	Color	Weight approx.
	[mm²]		[g/m]
TC-ER-JP AL	3 x 42,2 + 1 x 13,3 + 9 x 0,80	According to the order	1487

INDUSTRIAL AND ROBOTICS CABLES

COMMUNICATION

COFNET CAT5e SF/UTP Y

-40°C ... 80°C



DESIGN

Conductor:	CU ETP1 according to EN 13602, bare
Insulation material:	Polyolefin
Inner jacket material:	PVC
Jacket material:	PVC, UV Resistant

CONSTRUCTION

Polyolefin multi-core cable with PVC inner layer, PET tape, aluminum tape, tinned copper braiding screen and PVC jacket (SF/UTP).

TECHNICAL DATA

Temperature range:	-40°C to 80°C
Characteristic Impedance:	≈ 100 Ω
Velocity of Propagation:	0,67 c
Delay skew:	≤ 25 ns/100m
CPR Class:	Eca

ACCORDING TO THE STANDARD

1. UL 444 (CMG)
2. UL 13 (PLTC)
3. UL Style 21694
4. IEC 61156-5

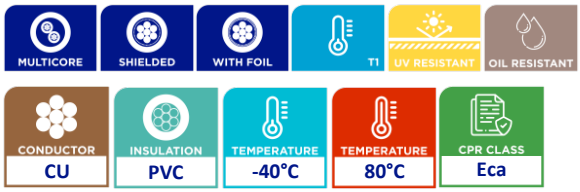
Type	Conductor				Core	Screen	Cable	
	Geometry			Resistance (20°C)	Geometry		Geometry	
	Cross-section		Construction	Bare max.	Diameter	Coverage nom.	Wall thickness min. / nom.	Diameter
	[AWG]	[mm²]	N x Ønom.[mm]	[mΩ/m]	[mm]	[%]	[mm]	[mm]
COFNET CAT5e SF/UTP Y	2 x 2 x 22	2 x 2 x 0,34	1 x 0,65	53	1,50 ±0,1	85	0,61 / 0,76	6,5 ±0,3

COFNET CAT5e SF/UTP Y				
Frequency	Insertion Loss max.	NEXT min.	Return Loss min.	TCL
[MHz]	[dB/100m]	[dB]	[dB]	[dB]
4	4	56,3	23	34
10	6,3	50,3	25	30
16	8	47,2	25	28
20	9	45,8	25	27
31,25	11,4	42,9	23,6	25,1
62,5	16,5	38,4	21,5	22
100	21,3	35,3	20,1	20

According to IEC 61156-5

COFNET CAT5e SF/UTP Y-F sn

-40°C ... 80°C



DESIGN

Conductor:	CU ETP1 according to EN 13602, tinned
Insulation material:	Polyolefin
Inner jacket material:	PVC
Jacket material:	PVC, UV Resistant, Oil Resistant

CONSTRUCTION

Polyolefin multi-core cable with PVC inner layer, PET tape, aluminum tape, tinned copper braiding screen and PVC jacket (SF/UTP).

TECHNICAL DATA

Temperature range:	-40°C to 80°C
Characteristic Impedance:	≈ 100 Ω
Velocity of Propagation:	0,67 c
Delay skew:	≤ 25 ns/100m
CPR Class:	Eca

ACCORDING TO THE STANDARD

1. UL 444 (CMG)
2. UL 13 (PLTC)
3. UL Style 21694
4. IEC 61156-5

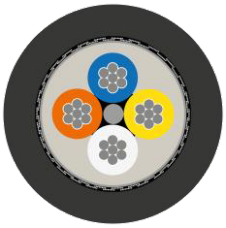
Type	Conductor				Core	Screen	Cable	
	Geometry			Resistance (20°C)	Geometry		Geometry	
	Cross-section		Construction	Tinned max.	Diameter	Coverage nom.	Wall thickness min. / nom.	Diameter
	[AWG]	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[%]	[mm]	[mm]
COFNET CAT5e SF/UTP Y-F sn	2 x 2 x 22	2 x 2 x 0,34	7 x 0,26	53	1,50 ±0,1	85	0,61 / 0,76	6,5 ±0,3

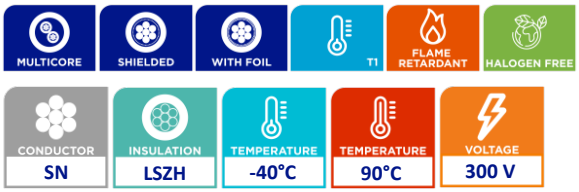
COFNET CAT5e SF/UTP Y-F sn				
Frequency	Insertion Loss max.	NEXT min.	Return Loss min.	TCL
[MHz]	[dB/100m]	[dB]	[dB]	[dB]
4	4	56,3	23	34
10	6,3	50,3	25	30
16	8	47,2	25	28
20	9	45,8	25	27
31,25	11,4	42,9	23,6	25,1
62,5	16,5	38,4	21,5	22
100	21,3	35,3	20,1	20

According to IEC 61156-5

COFNET LAN
CAT5e SF/UTQ X-F sn

-40°C ... 90°C





DESIGN

Conductor:	CU, tinned, according to IEC 60228
Insulation material:	Polyolefine, E-beam cross-linked
Inner jacket material:	LSZH, E-beam cross-linked Flame retardant
Jacket material:	LSZH, E-beam cross-linked Flame retardant

CONSTRUCTION

Polyolefine multi-core cable with LSZH inner layer, aluminium tape, tinned copper braiding screen and LSZH jacket (SF/UTQ).

TECHNICAL DATA

Temperature range:	-40°C to 90°C
Rated Voltage:	300 V

ACCORDING TO THE STANDARD

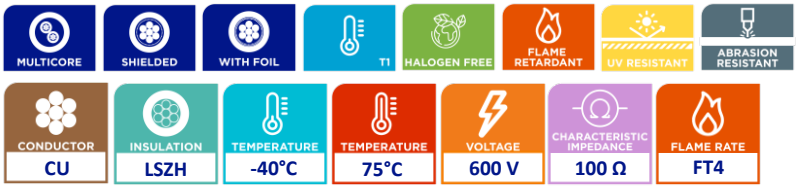
1. EN 50305

Type	Conductor				Core		Screen	Cable		
	Geometry			Resistance (20°C)	Geometry			Geometry		
	Cross-section		Construction	Tinned max.	Wall thickness min.	Diameter	Coverage nom.	Lay length	Wall thickness min.	Diameter
	[AWG]	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[%]	[mm]	[mm]	[mm]
COFNET LAN CAT5e SF/UTQ X-F sn	4 x 22	4 x 0,34	19 x 0,16	57,1	0,3	1,57 ±0,05	80	55 ±5	0,8	6,7 ±0,3
Filler	-	-	-	-	-	*As needed*	-	-	-	-

COFNET LAN CAT5e SF/UTQ X-F sn				
Frequency	Insertion Loss max.	NEXT min.	FEXT min.	Transfer Impedance max.
[MHz]	[dB/100m]	[dB]	[dB]	[mΩ/m]
1	2,1	65,3	64	-
4	4,1	56,3	52	-
10	6,5	50	43,8	10
16	8,3	47	40	-
31,25	11,7	42,9	33,9	-
62,5	17	38,4	28	-
100	22	35,3	24	-

COFNET CAT6A S/FTP H-F

-40°C ... 75°C



DESIGN

Conductor:	CU ETP1 according to IEC 60228
Insulation material:	Foam-skin Polyolofin, acc. to IEC 61156-6:2020
Jacket material:	LSZH Halogen Free, Flame Retardant, UV Resistant, Abrasion Resistant

CONSTRUCTION

LSZH jacketed cable, with tinned copper braid and foam-skin polyolofin twisted pairs with AL/PET foil (S/FTP).

TECHNICAL DATA

Temperature range:	-40°C to 75°C
Rated Voltage:	600 V
Test Voltage:	2 000 V
Impedance:	100 ±5Ω (at 100 MHz)
Mutual Capacitance (nom):	44 nF/km (at 1 kHz)
Capacitance unbalance:	≤ 1 600 pF/km
Differential Delay:	≤ 45 ns/100m
Flame Rate:	FT4

ACCORDING TO THE STANDARD

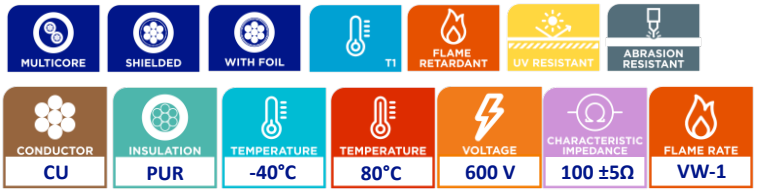
1. UL 444 (CMG)
2. IEC 61156-6
3. IEC 60332-1-2

Type	Conductor			Core		Screen	Cable	
	Geometry		Resistance (20°C)	Geometry			Geometry	
	Cross-section	Construction	Bare max.	Wall thickness min.	Diameter	Coverage nom.	Wall thickness min./nom.	Diameter
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[%]	[mm]	[mm]
COFNET CAT6A S/FTP H-F	4 x (2 x 0,14)	7 x 0,16	143	0,22	1,04 ±0,05	70	0,46/0,58	6,5 ±0,3

COFNET CAT6A S/FTP H-F				
Frequency	IL max.	RL min.	Phase Delay max.	NEXT min.
[MHz]	[dB/100m]	[dB]	[ns/100m]	[dB]
1	3,1	20	-	72,3
5	6,3	23,5	-	61,8
10	8,9	25	-	57,3
20	12,6	25	542,0	52,8
60	22,0	20,9	538,6	45,6
100	28,7	19,0	537,6	42,3
200	41,4	16,4	536,5	37,8
300	51,4	15,6	536,1	35,1
500	67,9	15,6	535,6	31,8

COFNET CAT7
S/FTP P-F

-40°C ... 80°C



DESIGN

Conductor:	CU ETP1 according to IEC 60228
Insulation material:	Foam-skin Polyolefin, acc. to IEC 61156-6:2020
Jacket material:	Thermoplastic Polyurethane TPU Flame Retardant, UV Resistant, Abrasion Resistant

CONSTRUCTION

PUR jacketed cable, tinned copper braid and foam-skin polyolefin twisted pairs with AL/PET foil (S/FTP).

TECHNICAL DATA

Temperature range:	-40°C to 80°C
Rated Voltage:	600 V
Test Voltage:	2 000 V
Impedance:	100 ±5Ω (at 100 MHz)
Mutual Capacitance (nom):	44 nF/km (at 1 kHz)
Capacitance unbalance:	≤ 1 600 pF/km
Differential Delay:	≤ 45 ns/100m
Flame Rate:	VW-1

ACCORDING TO THE STANDARD

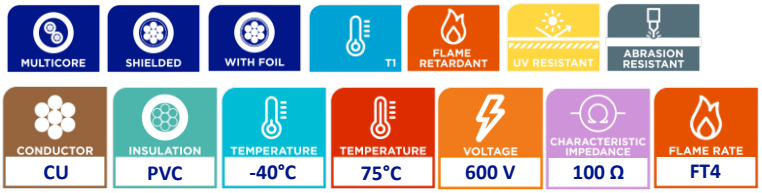
1. UL Style 21238
2. UL 444 (CMX)
3. IEC 61156-6
4. IEC 60332-1-2

Type	Conductor			Core		Screen	Cable	
	Geometry		Resistance (20°C)	Geometry			Geometry	
	Cross-section	Construction	Bare max.	Wall thickness min.	Diameter	Coverage nom.	Wall thickness min./nom.	Diameter
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[%]	[mm]	[mm]
COFNET CAT7 S/FTP P-F	4 x (2 x 0,14)	7 x 0,16	143	0,22	1,04 ±0,05	70	0,30/0,38	5,7 ±0,3

COFNET CAT7 S/FTP P-F				
Frequency	IL max.	RL min.	Phase Delay max.	NEXT min.
[MHz]	[dB/100m]	[dB]	[ns/100m]	[dB]
1	3,0	20	-	75
5	6,2	23,5	-	75
10	8,8	25	-	75
20	12,4	25	542,0	75
60	21,9	20,9	538,6	72,7
100	28,5	19,0	537,6	69,4
200	41,2	16,4	536,5	64,9
300	51,3	15,6	536,1	62,2
500	67,9	15,6	535,6	58,9
600	75,1	15,6	535,5	57,7

COFNET CAT7
S/FTP Y-F

-40°C ... 75°C



DESIGN

Conductor:	CU ETP1 according to IEC 60228
Insulation material:	Foam-skin Polyolofin, acc. to IEC 61156-6:2020
Jacket material:	Plasticized PVC Flame Retardant, UV Resistant, Abrasion Resistant

CONSTRUCTION

PVC jacketed cable, with tinned copper braid and foam-skin polyolofin twisted pairs with AL/PET foil (S/FTP).

TECHNICAL DATA

Temperature range:	-40°C to 75°C
Rated Voltage:	600 V
Test Voltage:	2 000 V
Impedance:	100 ±5Ω (at 100 MHz)
Mutual Capacitance (nom):	44 nF/km (at 1 kHz)
Capacitance unbalance:	≤ 1 600 pF/km
Differential Delay:	≤ 25 ns/100m
Flame Rate:	FT4

ACCORDING TO THE STANDARD

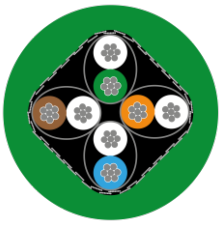
1. UL 444 (CMG)
2. IEC 61156-6
3. IEC 60332-1-2

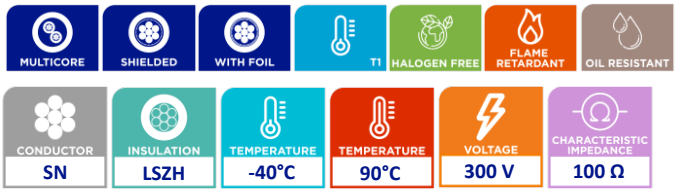
Type	Conductor			Core		Screen	Cable	
	Geometry		Resistance (20°C)	Geometry			Geometry	
	Cross-section	Construction	Bare max.	Wall thickness min.	Diameter	Coverage nom.	Wall thickness min./nom.	Diameter
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[%]	[mm]	[mm]
COFNET CAT7 S/FTP Y-F	4 x (2 x 0,14)	7 x 0,16	143	0,22	1,04 ±0,05	70	0,46/0,58	6,5 ±0,3

COFNET CAT7 S/FTP Y-F				
Frequency	IL max.	RL min.	Phase Delay max.	NEXT min.
[MHz]	[dB/100m]	[dB]	[ns/100m]	[dB]
1	3,0	20	-	75
5	6,2	23,5	-	75
10	8,8	25	-	75
20	12,4	25	542,0	75
60	21,9	20,9	538,6	72,7
100	28,5	19,0	537,6	69,4
200	41,2	16,4	536,5	64,9
300	51,3	15,6	536,1	62,2
500	67,9	15,6	535,6	58,9
600	75,1	15,6	535,5	57,7

COFNET LAN
CAT7 S/FTP X-F sn

-40°C ... 90°C





DESIGN

Conductor:	CU ETP1 according to EN 13602, tinned
Insulation material:	Foam Polyolefin, E-beam cross-linked
Jacket material:	LSZH, E-beam cross-linked Flame Retardant, Oil Resistant

CONSTRUCTION

LSZH jacketed cable, with tinned copper braid and foam polyolefin twisted pairs with AL/PET foil (S/FTP).

TECHNICAL DATA

Temperature range:	-40°C to 90°C
Rated Voltage:	300 V
Mutual Capacitance:	< 56 pF/m
Capacitance Unbalance:	≤ 1600 pF/km
Characteristic Impedance:	100 Ω (nominal value)

ACCORDING TO THE STANDARD

1. EN 50305
2. ISO/IEC 11801-1

Type	Conductor				Core		Screen	Cable		
	Geometry			Resistance (20°C)	Geometry			Geometry		
	Cross-section		Construction	Tinned max.	Wall thickness min.	Diameter	Coverage nom.	Lay length	Wall thickness min.	Diameter
	[AWG]	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[%]	[mm]	[mm]	[mm]
COFNET LAN CAT7 S/FTP X-F sn	4 x (2 x 24)	4 x (2 x 0,25)	19 x 0,15	95,0	0,27	1,45 ±0,05	80	27 (pair) 90 (final)	0,5	8,1 ±0,3

COFNET LAN CAT7 S/FTP X-F sn	
Frequency	Insertion Loss max.
[MHz]	[dB/100m]
1	2,9
4	5,6
10	8,8
16	11,1
31,2	15,6
62,5	22,3
100	28,5
300	51,3
500	67,9
600	75,1
1 000	100,4

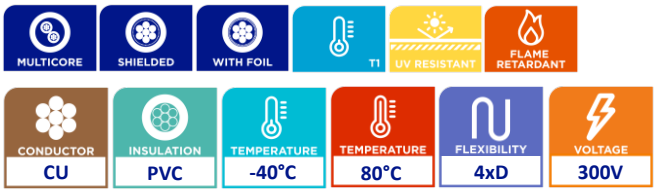
Note: *Limits below 4MHz are for information only. Values at 1000 MHz are for information only*

COFNET LAN CAT7 S/FTP X-F sn	
Frequency	**Transfer Impedance**
[MHz]	**[mΩ/m]**
1	< 5
10	< 5
30	< 30
100	100

Transfer Impedance Class: Grade 1
Screening Class: Type I
Table Notes: *Coupling Attenuation*

COFNET SPE Y-F 2x0,14

-40°C ... 80°C



DESIGN

Conductor:	CU ETP1 according to EN 13602
Insulation material:	Foam-skin Polyolefine
Jacket material:	PVC plasticized
	Flame retardant, UV resistant

CONSTRUCTION

Foam-skin Polyolefine multi-core cable with PET foil, aluminium tape, tinned copper braiding screen and PVC jacket.

ACCORDING TO THE STANDARD

1. UL 758
2. CSA 22.2 No 210
3. UL Style 2095

TECHNICAL DATA

Temperature range:	-40°C to 80°C (for fixed installation) -20°C to 60°C (for occasionally moved) 80°C (acc. UL 758)
Min. bending radius:	4xD (for fixed installation) 8xD (for occasionally moved)
Flame rate:	FT2 horizontal flame acc. UL 1581 §1100
Test Voltage:	2 000 V
Rated Voltage:	300 V (acc. UL 758)
Mutual Capacitance:	nom. 42nF/km (at 1kHz)
Capacitance Unbalance:	≤ 1 200 pF/km (at 1 kHz)
Velocity of propagation:	100 MHz: nom. 0,77

Type	Conductor				Core		Screen		Cable		
	Geometry			Resistance (20°C)	Geometry				Geometry		
	Cross-section		Construction	Bare max.	Wall thickness min.	Diameter	Construction	Coverage nom.	Lay length	Wall thickness min. /nom.	Diameter
	[AWG]	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	N x N x Ønom.[mm]	[%]	[mm]	[mm]	[mm]
COFNET SPE Y-F	2 x 26	2 x 0,14	7 x 0,16	140	0,22	1,05 ±0,04	16 x 6 x 0,10 sn	85	27 ±3	0,3 /0,38	4,6 ±0,3

COFNET SPE Y-F 2x0,14								
Frequency	Phase Delay max.	Attenuation max.	TCL Level 1 min.	EL TCTL Level 1 min.	Char. Impedance	RL min.	Transfer Impedance max.*	Coupling attenuation min.**
[MHz]	[ns/100 m]	[dB/100 m]	[dB]	[dB]	[Ω]	[dB]	[mΩ/m]	[dB]
0,1	(648)	(2,0)	(40,0)	(53,0)	-	(10,0)	30	110
1	570	3,1	40,0	40,0	-	20,0	30	100
2	559	4,1	35,5	34,0	-	21,5	-	-
4	552	5,6	31,0	28,0	-	23,0	-	-
10	545	8,7	25,0	20,0	-	25,0	20	90
20	542	12,3	20,5	14,0	-	25,0	60	-
30	-	-	-	-	-	-	-	85
62,5	539	21,9	13,1	6,0	-	21,5	-	85
100	538	27,8	10,0	6,0	100 ±5	20,1	-	-
200	537	39,7	7,0	6,0	-	18,0	-	85
500	536	64,1	7,0	6,0	-	15,2	-	-
600	535	70,7	7,0	6,0	-	14,7	-	-
1000	-	-	-	-	-	-	-	65

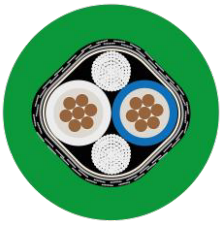
* Grade 1b acc. IEC 61156-13

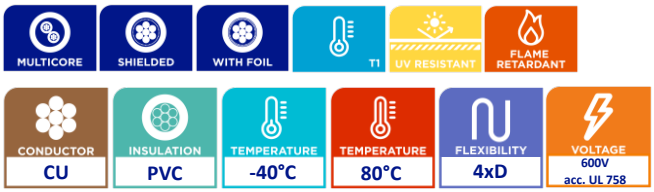
** Type I acc. IEC 61156-12

The transmission characteristics meet the requirements of IEC 61156-12, T1-C. The table contains informative values at key frequencies. Values in brackets are for further studies (ffs).

COFNET SPE Y-F 2x0,34

-40°C ... 80°C





DESIGN

Conductor:	CU ETP1 according to EN 13602
Insulation material:	Foam-skin Polyolefine
Jacket material:	PVC plasticized
	Flame retardant, UV resistant

CONSTRUCTION

Foam-skin Polyolefine multi-core cable with PET foil, aluminium tape, tinned copper braiding screen and PVC jacket.

ACCORDING TO THE STANDARD

1. UL 13
2. UL 444
3. UL Style 21695

TECHNICAL DATA

Temperature range:	-40°C to 80°C (for fixed installation)
	-10°C to 70°C (for occasionally moved)
	75°C (acc. UL 13 and UL 444)
	80°C (acc. UL 758)
Min. bending radius:	4xD (for fixed installation)
	8xD (for occasionally moved)
Flame rate:	FT2 horizontal flame acc. UL 1581 §1100
	FT1 vertical flame acc. UL 1581 §1060
	UL flame exposure acc. UL 1685 §4 – §11
Test Voltage:	2 000 V
Rated Voltage:	300 V acc. UL 13 and UL 444
	600 V acc. UL 758
Mutual Capacitance:	nom. 45 nF/km (at 1 kHz)
Capacitance Unbalance:	≤ 1200 pF/km (at 1 kHz)
Inductance:	nom. 700 mH/km (at 1 kHz)
Velocity of propagation:	100 MHz: nom. 0,76 c

Type	Conductor				Core		Screen		Cable		
	Geometry			Resistance (20°C)	Geometry				Geometry		
	Cross-section		Construction	Bare max.	Wall thickness min.	Diameter	Construction	Coverage nom.	Lay length	Wall thickness min. /nom.	Diameter
	[AWG]	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	N x N x Ønom.[mm]	[%]	[mm]	[mm]	[mm]
COFNET SPE Y-F	2 x 22	2 x 0,34	7 x 0,24	55,4	0,3	1,6 ±0,05	16 x 8 x 0,10 sn	85	45 ±4	0,61 /0,76	5,8 ±0,3

COFNET SPE Y-F 2 x 0,34								
Frequency	Phase Delay max.	Attenuation max.	TCL Level 1 min.	EL TCTL Level 1 min.	Char. Impedance	RL min.	Transfer Impedance max.*	Coupling attenuation min.**
[MHz]	[ns/100 m]	[dB/100 m]	[dB]	[dB]	[Ω]	[dB]	[mΩ/m]	[dB]
0,1	(648)	(1,4)	(40,0)	(53,0)	-	(10,0)	30	110
1	570	2,1	40,0	40,0	-	20,0	30	100
2	559	2,7	35,5	34,0	-	21,5	-	-
4	552	3,7	31,0	28,0	-	23,0	-	-
10	545	5,8	25,0	20,0	-	25,0	20	90
20	542	8,2	20,5	14,0	-	25,0	60	-
30	-	-	-	-	-	-	-	85
62,5	539	14,6	13,1	6,0	-	21,5	-	-
100	538	18,5	10,0	6,0	100 ±5	20,1	-	85
200	537	26,5	7,0	6,0	-	18,0	-	-
300	536	32,7	7,0	6,0	-	16,8	-	-
500	536	42,8	7,0	6,0	-	15,2	-	-
600	535	47,1	7,0	6,0	-	17,3	-	-
1000	535	61,9	7,0	6,0	-	15,1	-	-
1250	535	69,9	7,0	6,0	-	14,1	-	85

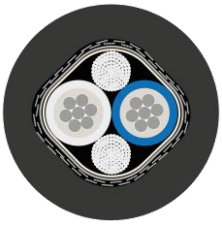
* Grade 1b acc. IEC 61156-13

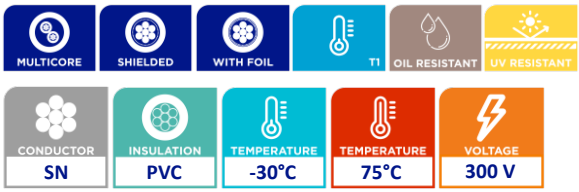
** Type I acc. IEC 61156-12

The transmission characteristics meet the requirements of IEC 61156-12, T1-C. The table contains informative values at key frequencies. Values in brackets are for further studies (ffs).

COFNET SPE Y-F
2x0,34sn

-30°C ... 75°C





DESIGN

Conductor:	CU ETP1 according to EN 13602, tinned
Insulation material:	Foam-skin Polyethylene
Jacket material:	PVC plasticized
	Oil Resistant, UV resistant

CONSTRUCTION

Foam-skin Polyethylene multi-core cable with PET foil, aluminium tape, tinned copper braiding screen and PVC jacket (SF/UTP).

TECHNICAL DATA

Temperature range:	-30°C to 75°C
Rated Voltage:	300 V
Capacitance Unbalance:	≤ 1600 pF/km

ACCORDING TO THE STANDARD

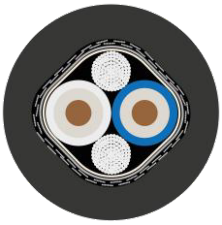
1. UL 13
2. UL 444

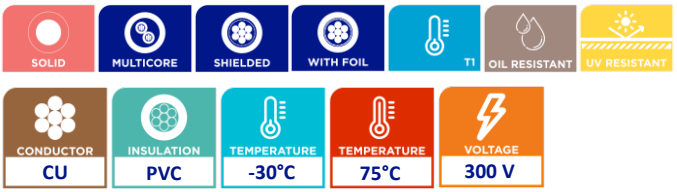
Type	Conductor				Core		Screen	Cable		
	Geometry			Resistance (20°C)	Geometry			Geometry		
	Cross-section		Construction	Tinned max.	Wall thickness min.	Diameter	Coverage nom.	Lay length	Wall thickness min.	Diameter
	[AWG]	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[%]	[mm]	[mm]	[mm]
COFNET SPE Y-F	2 x 22 sn	2 x 0,34 sn	7 x 0,26	68,0	0,33	1,70 ±0,05	90	45 ±5	0,76	6,2 ±0,3

COFNET SPE Y-F 2 x 0,34 sn			
Frequency	Insertion Loss max.	Return Loss min.	Coupling Attenuation min.
[MHz]	[dB]	[dB]	[dB]
0,1	1,4	15	60
1	2,1	20	60
4	3,8	23	60
10	5,9	25	60
20	8,4	25	60

COFNET SPE Y 2x0,75

-30°C ... 75°C





DESIGN

Conductor:	CU ETP1 according to EN 13602
Insulation material:	Foam-skin Polyethylene
Jacket material:	PVC plasticized
	Oil Resistant, UV resistant

CONSTRUCTION

Foam-skin Polyethylene multi-core cable with PET foil, aluminium tape, tinned copper braiding screen and PVC jacket (SF/UTP).

TECHNICAL DATA

Temperature range:	-30°C to 75°C
Rated Voltage:	300 V
Capacitance Unbalance:	≤ 1600 pF/km

ACCORDING TO THE STANDARD

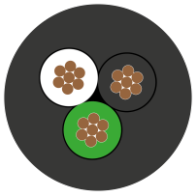
1. UL 13
2. UL 444

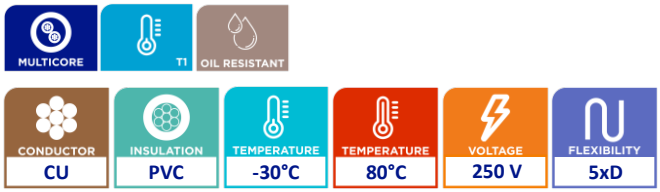
Type	Conductor				Core		Screen	Cable		
	Geometry			Resistance (20°C)	Geometry			Geometry		
	Cross-section		Construction	Bare max.	Wall thickness min.	Diameter	Coverage nom.	Lay length	Wall thickness min.	Diameter
	[AWG]	[mm²]	N x Ønom.[mm]	[mΩ/m]	[mm]	[mm]	[%]	[mm]	[mm]	[mm]
COFNET SPE Y	2 x 18	2 x 0,75	1 x 1,04	22,3	0,5	2,49 ±0,1	90	60 ±6	0,76	7,7 ±0,3

COFNET SPE Y 2 x 0,75			
Frequency	Insertion Loss max.	Return Loss min.	Coupling Attenuation min.
[MHz]	[dB]	[dB]	[dB]
0,1	1,0	15	60
1	1,4	20	60
4	2,6	23	60
10	4,1	25	60
20	5,7	25	60

COFTRONIC LiYY

-30°C to 80°C





DESIGN

Conductor:	CU class 5, bare, acc. IEC 60228
Insulation Material:	plasticized PVC
Jacket Material:	plasticized PVC, oil resistant

ACCORDING TO THE STANDARD

1. VDE 0812

TECHNICAL DATA

Rated voltage:	250 V
Peak voltage:	350 V (for 0,14mm²)
	500 V (for > 0,14mm²)
Temperature range:	-30°C to 80°C
Capacitance:	≈ 120 nF/km
Min. bending radius:	5xD (fixed installation)
	10xD (occasionally moved)

Type	Conductor			Core		Cable	
	Geometry		Resistance (20°C)	Geometry		Geometry	
	Cross-section	Construction	Bare max.	Wall thickness min. / nom.	Diameter	Wall thickness min. / nom.	Diameter
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]
COFTRONIC LiYY	2 x 0,14	18 x 0,10	148	0,25 / 0,3	1,0 – 1,2	0,35 / 0,5	2,9 – 3,3
COFTRONIC LiYY	3 x 0,14	18 x 0,10	148	0,25 / 0,3	1,0 – 1,2	0,35 / 0,5	3,0 – 3,5
COFTRONIC LiYY	5 x 0,14	18 x 0,10	148	0,25 / 0,3	1,0 – 1,2	0,35 / 0,5	3,65 – 4,15
COFTRONIC LiYY	4 x 0,25	14 x 0,15	79,9	0,25 / 0,3	1,2 – 1,4	0,35 / 0,5	4,0 – 4,6
COFTRONIC LiYY	2 x 0,34	7 x 0,25	56,0	0,3 / 0,4	1,45 – 1,75	0,35 / 0,5	3,95 – 4,45
COFTRONIC LiYY	3 x 0,34	7 x 0,25	56,0	0,3 / 0,4	1,45 – 1,75	0,35 / 0,5	4,1 – 4,7
COFTRONIC LiYY	4 x 0,34	7 x 0,25	56,0	0,3 / 0,4	1,45 – 1,75	0,35 / 0,5	4,5 – 5,1
COFTRONIC LiYY	5 x 0,34	7 x 0,25	56,0	0,3 / 0,4	1,45 – 1,75	0,35 / 0,5	5,15 – 5,85
COFTRONIC LiYY	2 x 0,50	16 x 0,20	38,9	0,3 / 0,4	1,65 – 1,95	0,35 / 0,5	4,4 – 5,0

Cable type		
Type	Cross-section	Weight Approx.
	[mm²]	[g/m]
COFTRONIC LiYY	2 x 0,14	14
COFTRONIC LiYY	3 x 0,14	16
COFTRONIC LiYY	5 x 0,14	23
COFTRONIC LiYY	4 x 0,25	27
COFTRONIC LiYY	2 x 0,34	25
COFTRONIC LiYY	3 x 0,34	30
COFTRONIC LiYY	4 x 0,34	36
COFTRONIC LiYY	5 x 0,34	44
COFTRONIC LiYY	2 x 0,50	31

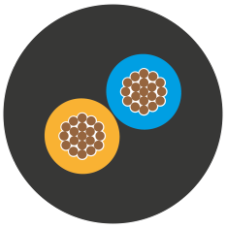
INDUSTRIAL AND ROBOTICS CABLES

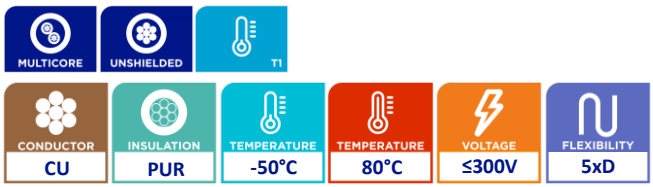
DRAG CHAIN

Li9Y11Y

UL Style 20233

-50°C to 80°C





DESIGN

Conductor:	CU ETP1 according to EN 13602, Bare
Insulation material:	PP
Jacket Material:	PUR

TECHNICAL DATA

Voltage level:	≤ 300V
Test Voltage:	≥ 2000V $_{eff.}$
Temperature range:	-50°C … 80°C (for stationary use) -50°C … 80°C (for flexible use) -25°C … 60°C (ambient temperature in the drag chain movement)
Min. bending radius:	5xD (for stationary use) 10xD (for flexible use)
Angle of torsion:	± 360 °
Length of torsion:	1m
Bending cycles at torsion:	> 5 Mio.
Flame test:	FT1

APPLICATION

Internal wiring or external interconnection of electronic equipment.

CONSTRUCTION

PUR jacketed cable with twisted PP single cores.

DRAG CHAIN DATA

Bending cycles:	> 12 Mio. For n x 0,25 mm² and n x 0,34 mm² > 5 Mio. For n x 0,5 mm²
Permissible acceleration:	max. 5m/s²
Permissible horizontal traverse path:	at 5m/s² → 5m
Permissible vertical traverse path:	at 5m/s² → 2m
Permissible traverse speed at 5 m horizontal traverse path:	max. 200m/min

ACCORDING TO THE STANDARD

1. UL Style 20233
2. UL Style 10493
3. UL 758
4. According to client's specification

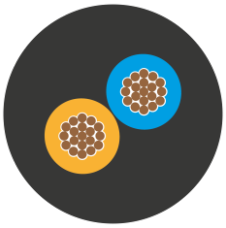
Type	Conductor				Core				Cable					
	Geometry			Resistance (20°C)	Geometry				Geometry					According to the Standard
	Cross-section	Construction	Diameter nom.	Bare max.	Wall thickness			Diameter	Lay length	Wall thickness			Diameter	
					Min.	Average Min.	Max.			Min.	Average Min.	Max.		
	[mm²]	N x Ønom.[mm]	[mm]	[mΩ/m]	[mm]			[mm]	[mm]	[mm]			[mm]	
Li9Y11Y	3 x 0,25	32 x 0,1	0,65	69,2	0,17	0,20	0,22	1,10 – 1,20	30 ±5	0,61	0,76	0,91	3,95 – 4,25	1, 2, 3, 4
Li9Y11Y	4 x 0,25	32 x 0,1	0,65	69,2	0,17	0,20	0,22	1,10 – 1,20	35 ±5	0,61	0,76	0,91	4,25 – 4,55	1, 2, 3, 4
Li9Y11Y	2 x 0,34	42 x 0,1	0,73	55,4	0,17	0,20	0,22	1,25 – 1,35	30 ±5	0,61	0,76	0,91	4,05 – 4,35	1, 2, 3, 4
Li9Y11Y	3 x 0,34	42 x 0,1	0,73	55,4	0,17	0,20	0,22	1,25 – 1,35	35 ±5	0,61	0,76	0,91	4,15 – 4,45	1, 2, 3, 4
Li9Y11Y	4 x 0,34	42 x 0,1	0,73	55,4	0,17	0,20	0,22	1,25 – 1,35	40 ±5	0,61	0,76	0,91	4,65 – 4,95	1, 2, 3, 4
Li9Y11Y	5 x 0,34	42 x 0,1	0,73	55,4	0,17	0,20	0,22	1,25 – 1,35	45 ±5	0,61	0,76	0,91	5,15 – 5,45	1, 2, 3, 4
Filler	-	-	-	-	-	-	-	1,00 – 1,20						
Li9Y11Y	3 x 0,50	64 x 0,1	0,92	34,6	0,17	0,20	0,22	1,40 – 1,50	40 ±5	0,61	0,76	0,91	4,65 – 4,95	1, 2, 3, 4
Li9Y11Y	4 x 0,50	64 x 0,1	0,92	34,6	0,17	0,20	0,22	1,40 – 1,50	45 ±5	0,61	0,76	0,91	5,05 – 5,35	1, 2, 3, 4
Li9Y11Y	5 x 0,50	64 x 0,1	0,92	34,6	0,17	0,20	0,22	1,40 – 1,50	50 ±5	0,61	0,76	0,91	5,45 – 5,75	1, 2, 3, 4
Filler	-	-	-	-	-	-	-	1,15 – 1,25						

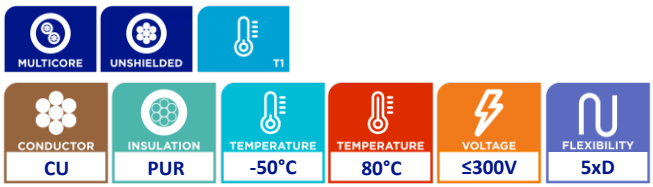
Cable type			
Type	**Cross-section**	**Colour**	**Weight approx.**
	[mm²]		**[g/m]**
Li9Y11Y	3 x 0,25	According to order	22
Li9Y11Y	4 x 0,25	According to order	26
Li9Y11Y	2 x 0,34	According to order	21
Li9Y11Y	3 x 0,34	According to order	25
Li9Y11Y	4 x 0,34	According to order	31
Li9Y11Y	5 x 0,34	According to order	39
Li9Y11Y	3 x 0,50	According to order	33
Li9Y11Y	4 x 0,50	According to order	41
Li9Y11Y	5 x 0,50	According to order	49

Li9Y11Y

UL Style 20549

-50°C to 80°C





DESIGN

Conductor: CU ETP1 according to EN 13602, Bare
Insulation material: PP
Jacket Material: PUR

TECHNICAL DATA

Voltage level: ≤ 300V
Test Voltage: ≥ 2000V eff.
Temperature range: -50°C … 80°C (for stationary use)
-50°C … 80°C (for flexible use)
-25°C … 60°C (ambient temperature in the drag chain movement)
Min. bending radius: 5xD (for stationary use)
10xD (for flexible use)
Flame test: FT1

APPLICATION

Internal wiring or external interconnection of electronic equipment.

CONSTRUCTION

PUR jacketed cable with twisted PP single cores.

DRAG CHAIN DATA

Bending cycles: > 2 Mio

ACCORDING TO THE STANDARD

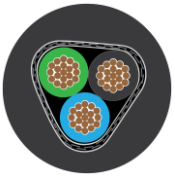
1. UL Style 20549
2. UL Style 10493
3. UL 758
4. According to client's specification

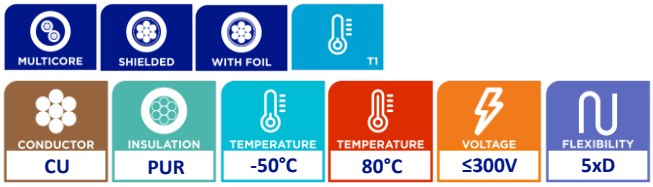
Type	Conductor				Core				Cable					
	Geometry			Resistance (20°C)	Geometry				Geometry					According to the Standard
	Cross-section	Construction	Diameter nom.	Bare max.	Wall thickness Min.	Wall thickness Average Min.	Wall thickness Max.	Diameter	Lay length	Wall thickness Min.	Wall thickness Average Min.	Wall thickness Max.	Diameter	
	[mm²]	NxØnom.[mm]	[mm]	[mΩ/m]	[mm]			[mm]	[mm]	[mm]			[mm]	
Li9Y11Y	3 x 0,25	32 x 0,1	0,65	69,2	0,17	0,20	0,22	1,10 – 1,20	30 ±5	0,30	0,38	0,46	3,15 – 3,45	1, 2, 3, 4
Li9Y11Y	4 x 0,25	32 x 0,1	0,65	69,2	0,17	0,20	0,22	1,10 – 1,20	35 ±5	0,30	0,38	0,46	3,45 – 3,75	1, 2, 3, 4
Li9Y11Y	2 x 0,34	42 x 0,1	0,73	55,4	0,17	0,20	0,22	1,25 – 1,35	30 ±5	0,30	0,38	0,46	3,25 – 3,55	1, 2, 3, 4
Li9Y11Y	3 x 0,34	42 x 0,1	0,73	55,4	0,17	0,20	0,22	1,25 – 1,35	35 ±5	0,30	0,38	0,46	3,45 – 3,75	1, 2, 3, 4
Li9Y11Y	4 x 0,34	42 x 0,1	0,73	55,4	0,17	0,20	0,22	1,25 – 1,35	40 ±5	0,30	0,38	0,46	3,80 – 4,10	1, 2, 3, 4
Li9Y11Y	5 x 0,34	42 x 0,1	0,73	55,4	0,17	0,20	0,22	1,25 – 1,35	45 ±5	0,30	0,38	0,46	4,15 – 4,45	1, 2, 3, 4
Filler	-	-	-	-	-	-	-	1,00 – 1,20						
Li9Y11Y	3 x 0,50	64 x 0,1	0,92	34,6	0,17	0,20	0,22	1,40 – 1,50	40 ±5	0,30	0,38	0,46	3,80 – 4,10	1, 2, 3, 4
Li9Y11Y	4 x 0,50	64 x 0,1	0,92	34,6	0,17	0,20	0,22	1,40 – 1,50	45 ±5	0,30	0,38	0,46	4,15 – 4,45	1, 2, 3, 4
Li9Y11Y	5 x 0,50	64 x 0,1	0,92	34,6	0,17	0,20	0,22	1,40 – 1,50	50 ±5	0,30	0,38	0,46	4,55 – 4,85	1, 2, 3, 4
Filler	-	-	-	-	-	-	-	1,15 – 1,25						

Li9YC11Y

UL Style 20233

-50°C to 80°C





DESIGN

Conductor:	CU ETP1 according to IEC 60228, class 6, bare
Insulation material:	PP
Jacket Material:	PUR

TECHNICAL DATA

Voltage level:	≤ 300V
Test Voltage:	≥ 2000$V_{eff.}$
Temperature range:	-50°C … 80°C (for stationary use) -50°C … 80°C (for flexible use) -25°C … 60°C (ambient temperature in the drag chain movement)
Flame test:	FT1
Min. bending radius:	5xD (for stationary use) 10xD (for flexible use)

SCREENING

Screening with tinned copper braid.

CONSTRUCTION

PUR jacketed cable with non-woven tape, tinned copper braiding, PET tape and twisted PP single cores.

DRAG CHAIN DATA

Bending cycles:	> 2 Mio
Permissible acceleration:	max. 5m/s²
Permissible horizontal traverse path:	at 5m/s² → 5m
Permissible vertical traverse path:	at 5m/s² → 2m

Permissible traverse speed at 5m horizontal traverse path: max. 200m/min

ACCORDING TO THE STANDARD

1. UL Style 20549
2. UL Style 10493
3. UL 758
4. According to client's specification

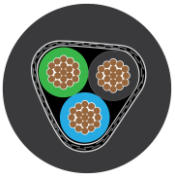
Type	Conductor				Core				Screen	Cable				
	Geometry			Resistance (20°C)	Geometry					Geometry				According to the Standard
	Cross-section	Construction	Diameter nom.	Bare max.	Wall thickness Min.	Wall thickness Average Min.	Wall thickness Max.	Diameter	Coverage	Wall thickness Min.	Wall thickness Average Min.	Wall thickness Max.	Diameter	
	[mm²]	NxØnom.[mm]	[mm]	[mΩ/m]	[mm]			[mm]	%	[mm]			[mm]	
Li9YC11Y	2 x 0,34	42 x 0,1	0,73	55,4	0,17	0,20	0,22	1,25 – 1,35	80	0,61	0,76	0,91	4,70 – 5,00	1, 2, 3, 4
Li9YC11Y	3 x 0,34	42 x 0,1	0,73	55,4	0,17	0,20	0,22	1,25 – 1,35	80	0,61	0,76	0,91	4,85 – 5,15	1, 2, 3, 4
Li9YC11Y	4 x 0,34	42 x 0,1	0,73	55,4	0,17	0,20	0,22	1,25 – 1,35	80	0,61	0,76	0,91	5,25 – 5,55	1, 2, 3, 4
Li9YC11Y	5 x 0,34	42 x 0,1	0,73	55,4	0,17	0,20	0,22	1,25 – 1,35	80	0,61	0,76	0,91	5,55 – 5,85	1, 2, 3, 4
Filler	-	-	-	-	-	-	-	1,00 – 1,20						
Li9YC11Y	4 x 0,50	64 x 0,1	0,92	34,6	0,17	0,20	0,22	1,35 – 1,45	80	0,61	0,76	0,91	5,65 – 5,95	1, 2, 3, 4

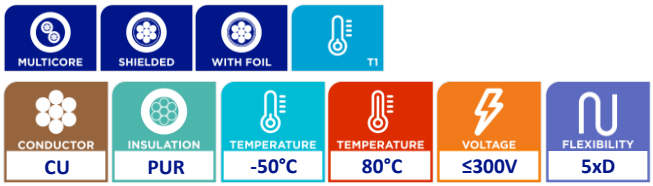
Cable type			
Type	Cross-section	Colour	Weight approx.
	[mm²]		[g/m]
Li9YC11Y	2 x 0,34	According to order	30
Li9YC11Y	3 x 0,34	According to order	34
Li9YC11Y	4 x 0,34	According to order	41
Li9YC11Y	5 x 0,34	According to order	48
Li9YC11Y	4 x 0,50	According to order	52

Li9YC11Y

UL Style 20549

-50°C to 80°C





DESIGN

Conductor: CU ETP1 according to IEC 60228, class 6, bare
Insulation material: PP
Jacket Material: PUR

TECHNICAL DATA

Voltage level: ≤ 300V
Test Voltage: ≥ 2000$V_{eff.}$
Temperature range: -50°C ... 80°C (for stationary use)
-50°C ... 80°C (for flexible use)
-25°C ... 60°C (ambient temperature in the drag chain movement)
Flame test: FT1
Min. bending radius: 5xD (for stationary use)
10xD (for flexible use)

SCREENING

Screening with tinned copper braid.

CONSTRUCTION

PUR jacketed cable with non-woven tape, tinned copper braiding, PET tape and twisted PP single cores.

DRAG CHAIN DATA

Bending cycles: > 2 Mio

ACCORDING TO THE STANDARD

1. UL Style 20549
2. UL Style 10493
3. UL 758
4. According to client's specification

Type	Conductor				Core				Screen	Cable				
	Geometry			Resistance (20°C)	Geometry					Geometry				According to the Standard
	Cross-section	Construction	Diameter nom.	Bare max.	Wall thickness Min.	Wall thickness Average Min.	Wall thickness Max.	Diameter	Coverage	Wall thickness Min.	Wall thickness Average Min.	Wall thickness Max.	Diameter	
	[mm²]	NxØnom.[mm]	[mm]	[mΩ/m]	[mm]			[mm]	%	[mm]			[mm]	
Li9YC11Y	2 x 0,34	42 x 0,1	0,73	55,4	0,17	0,20	0,22	1,25 – 1,35	80	0,30	0,38	0,46	3,90 – 4,20	1, 2, 3, 4
Li9YC11Y	3 x 0,34	42 x 0,1	0,73	55,4	0,17	0,20	0,22	1,25 – 1,35	80	0,30	0,38	0,46	4,10 – 4,40	1, 2, 3, 4
Li9YC11Y	4 x 0,34	42 x 0,1	0,73	55,4	0,17	0,20	0,22	1,25 – 1,35	80	0,30	0,38	0,46	4,45 – 4,75	1, 2, 3, 4
Li9YC11Y	5 x 0,34	42 x 0,1	0,73	55,4	0,17	0,20	0,22	1,25 – 1,35	80	0,30	0,38	0,46	4,80 – 5,10	1, 2, 3, 4
Filler	-	-	-	-	-	-	-	1,00 – 1,20						
Li9YC11Y	4 x 0,50	64 x 0,1	0,92	34,6	0,17	0,20	0,22	1,35 – 1,45	80	0,30	0,38	0,46	4,65 – 4,95	1, 2, 3, 4

Cable type			
Type	Cross-section	Colour	Weight approx.
	[mm²]		[g/m]
Li9YC11Y	2 x 0,34	According to order	23
Li9YC11Y	3 x 0,34	According to order	28
Li9YC11Y	4 x 0,34	According to order	34
Li9YC11Y	5 x 0,34	According to order	41
Li9YC11Y	4 x 0,50	According to order	42

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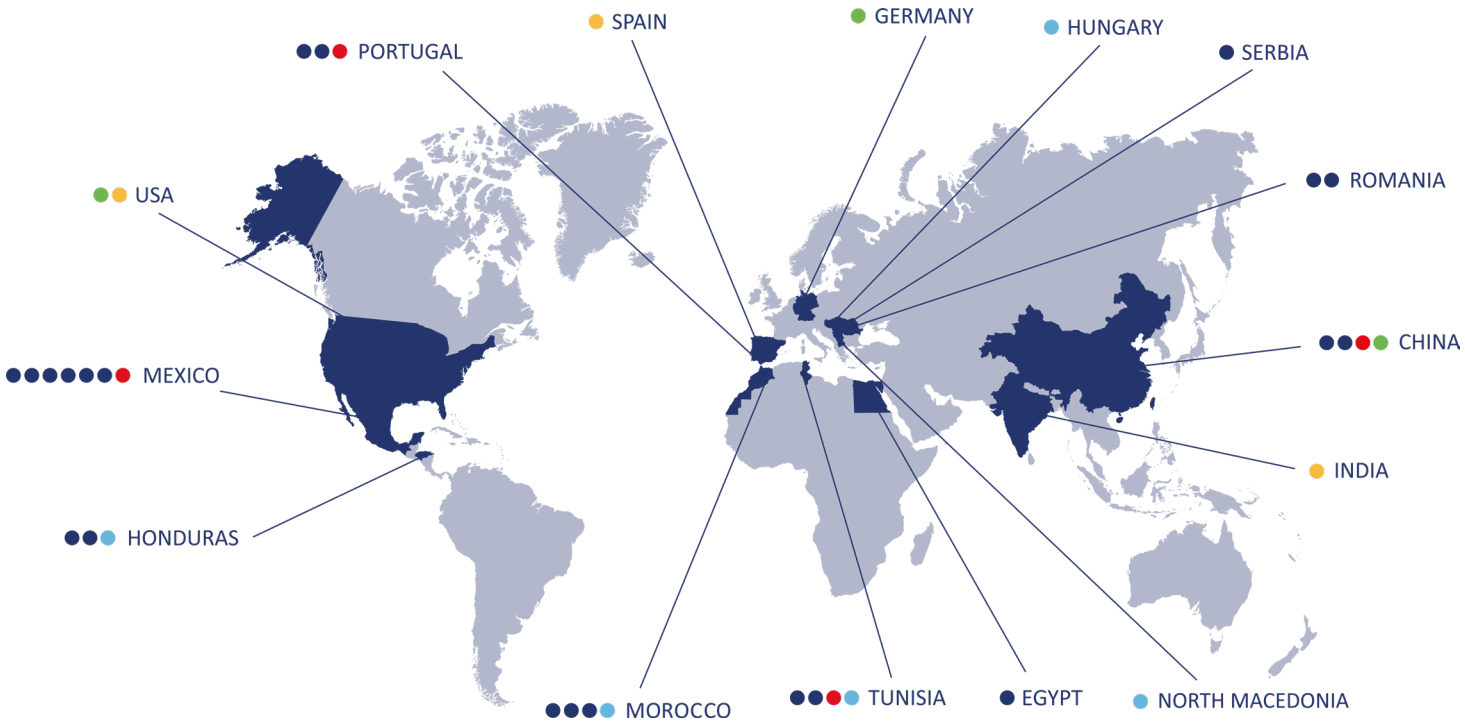

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