COFICAB
Powered by Passion

WIRES & CABLES
FOR TOMORROW'S TECHNOLOGIES

CABLES FOR
APPLIANCES AND BUILDINGS

COFICAB designs and manufactures cables for internal wiring of appliances, building construction and datacenters

WWW.COFICAB.COM

OVERVIEW

APPLIANCE AND BUILDING CABLES

POWER AND CONTROL

COMMUNICATION

UL

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.

APPLIANCE AND BUILDING CABLES

Power and Control	Communication	UL

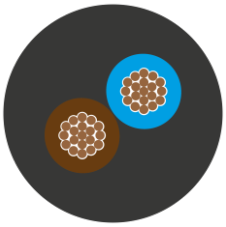
We can customize our cables on demand, e.g. we can produce all cross-sections and temperature classes upon request.

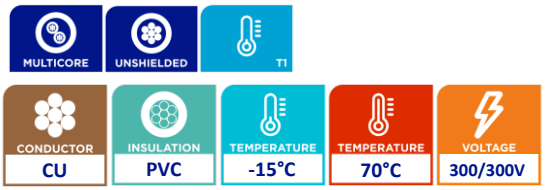
APPLIANCE AND BUILDING CABLES

POWER AND CONTROL

H03VV-F

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

ACCORDING TO THE STANDARD

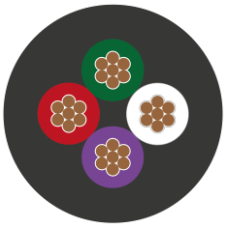
1. EN 50525-2-11

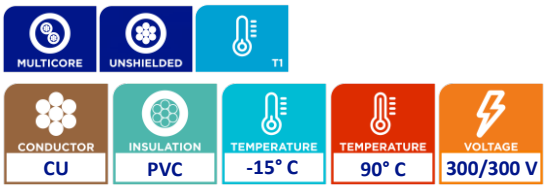
Type	Conductor			Core		Cable			According to the Standard
	Geometry		Resistance (20°C)	Geometry		Geometry			
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	Lay length max.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	[mm]	
H03VV-F	2 x 0,50	16 x 0,21	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

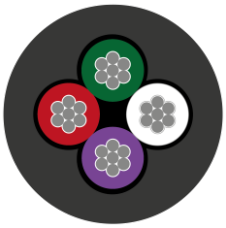
1. EN 50525-2-11

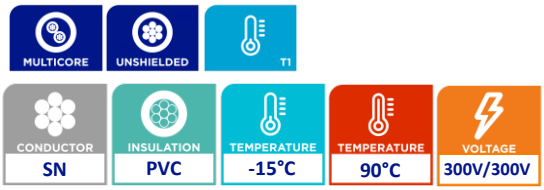
Type	Conductor			Core		Cable			
	Geometry		Resistance (20°C)	Geometry		Geometry			According to the Standard
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	Lay Length max.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	[mm]	
H03V2V2-F	2 x 0,50	16 x 0,21	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

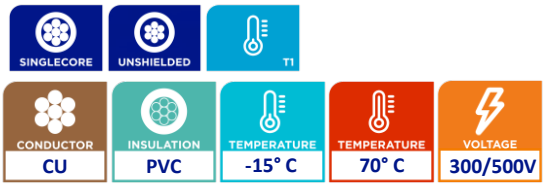
Type	Conductor			Core		Cable			According to the Standard
	Geometry		Resistance (20°C)	Geometry		Geometry			
	Cross-section	Construction	Tinned max.	Wall thickness nom.	Diameter	Lay Length max.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	[mm]	
H03V2V2-F sn	2 x 0,50	16 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

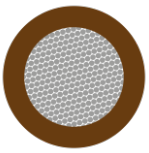
1. EN 50525-2-31

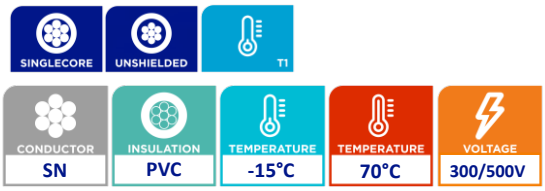
Type	Conductor				Cable		
	Geometry			Resistance (20°C)	Geometry		According to the Standard
	Cross-section	Construction	Lay length max.	Bare max.	Wall thickness nom.	Diameter	
	[mm²]	N* x Ømax.[mm]	[mm]	[mΩ/m]	[mm]	[mm]	
H05V-K	0,50	16 x 0,21	45	39,00	0,6	2,1 – 2,5	1
H05V-K	0,75	24 x 0,21	55	26,00	0,6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

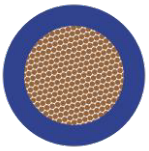
1. EN 50525-2-31

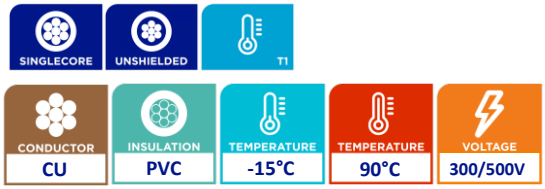
Type	Conductor				Cable		
	Geometry		Lay length max.	Resistance (20°C)	Geometry		According to the Standard
	Cross-section	Construction		Tinned max.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mm]	[mΩ/m]	[mm]	[mm]	
H05V-K Sn	0,50	16 x 0,21	45	40,1	0,6	2,1 – 2,5	1
H05V-K Sn	0,75	24 x 0,21	55	26,7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

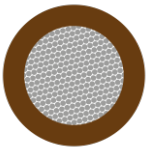
1. EN 50525-2-31

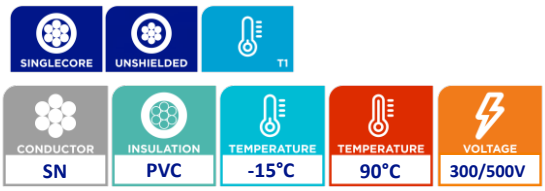
Type	Conductor				Cable		
	Geometry		Lay length max.	Resistance (20°C)	Geometry		According to the Standard
	Cross-section	Construction		Bare max.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mm]	[mΩ/m]	[mm]	[mm]	
H05V2-K	0,50	16 x 0,21	45	39,00	0,6	2,1 – 2,5	1
H05V2-K	0,75	24 x 0,21	55	26,00	0,6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

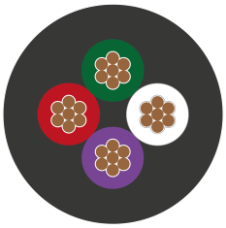
1. EN 50525-2-31

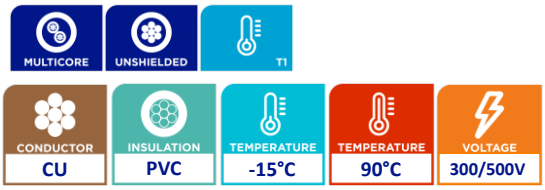
Type	Conductor				Cable		
	Geometry		Lay length max.	Resistance (20°C)	Geometry		According to the Standard
	Cross-section	Construction		Tinned max.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mm]	[mΩ/m]	[mm]	[mm]	
H05V2-K Sn	0,50	16 x 0,21	45	40,1	0,6	2,1 – 2,5	1
H05V2-K Sn	0,75	24 x 0,21	55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

H05V2V2-F

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

ACCORDING TO THE STANDARD

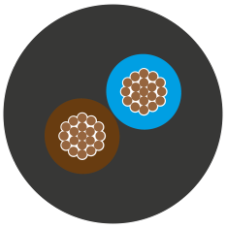
1. EN 50525-2-11

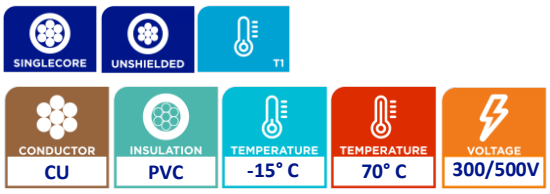
Type	Conductor			Core		Cable			According to the Standard
	Geometry		Resistance (20°C)	Geometry		Geometry			
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	Lay Length max.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	[mm]	
H05V2V2-F	2 x 0,75	24 x 0,21	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

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

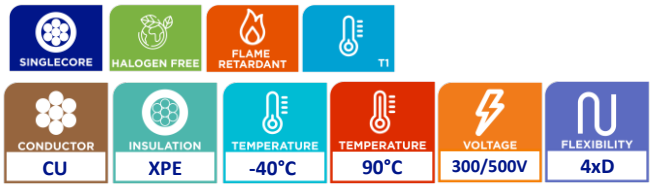
Type	Conductor			Core		Cable			
	Geometry		Resistance (20°C)	Geometry		Geometry			According to the Standard
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	Lay length max.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	[mm]	
H05VV-F	2 x 0,75	24 x 0,21	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

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

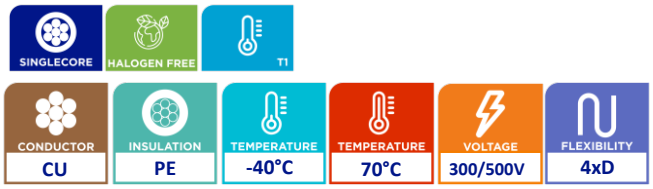
1. EN 50525-3-41

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

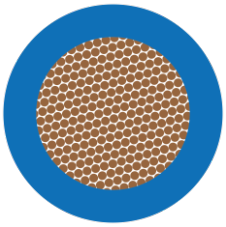
1. EN 50525-3-31

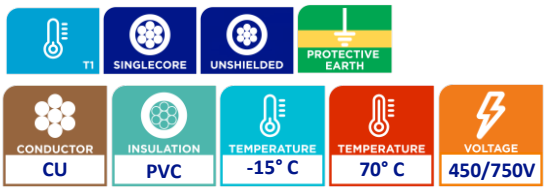
Type	Conductor			Cable		
	Geometry		Resistance (20°C)	Geometry		According to the Standard
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	
H05Z1-K	0,50	16 x 0,21	39,00	0,6	2,1 – 2,5	1
H05Z1-K	0,75	24 x 0,21	26,00	0,6	2,2 – 2,7	1
H05Z1-K	1,00	32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

TECHNICAL DATA

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

ACCORDING TO THE STANDARD

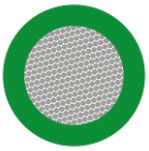
1. EN 50525-2-31

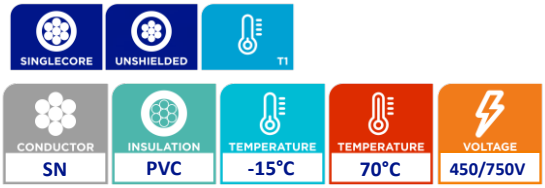
Type	Conductor			Cable		
	Geometry		Resistance (20°C)	Geometry		According to the Standard
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	
	[mm²]	N* x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	
H07V-K	1,50	30 x 0,26	13,30	0,7	2,8 – 3,4	1
H07V-K	2,50	50 x 0,26	7,98	0,8	3,4 – 4,1	1
H07V-K	4,00	56 x 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

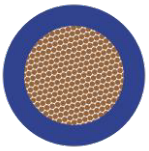
1. EN 50525-2-31

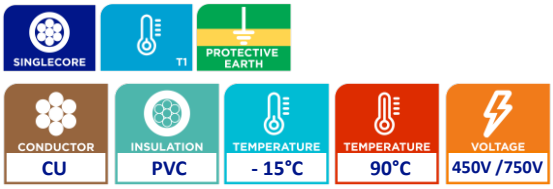
Type	Conductor			Cable		
	Geometry		Resistance (20°C)	Geometry		According to the Standard
	Cross-section	Construction	Tinned max.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	
H07V-K Sn	1,50	30 x 0,26	13,7	0,7	2,8 – 3,4	1
H07V-K Sn	2,50	50 x 0,26	8,21	0,8	3,4 – 4,1	1
H07V-K Sn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

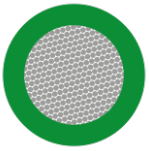
1. EN 50525-2-31

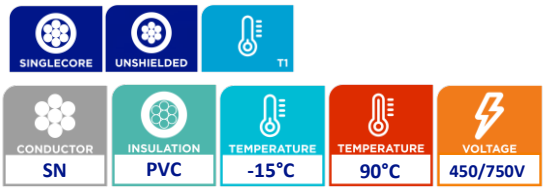
Type	Conductor			Cable		
	Geometry		Resistance (20°C)	Geometry		According to the Standard
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	
H07V2-K	1,50	30 x 0,26	13,30	0,7	2,8 – 3,4	1
H07V2-K	2,50	50 x 0,26	7,98	0,8	3,4 – 4,1	1
H07V2-K	4,00	56 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

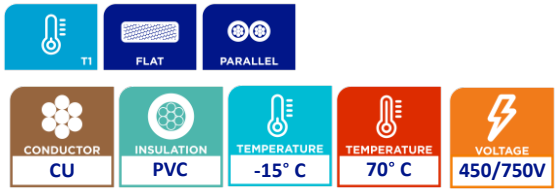
1. EN 50525-2-31

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

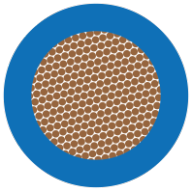
ACCORDING TO THE STANDARD

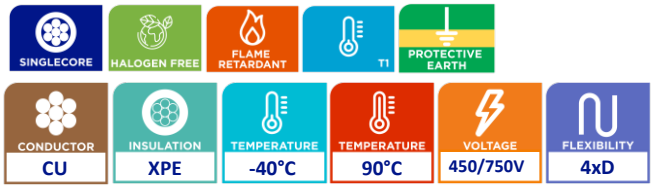
1. EN 50214

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

TECHNICAL DATA

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

ACCORDING TO THE STANDARD

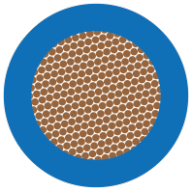
1. EN 50525-3-41

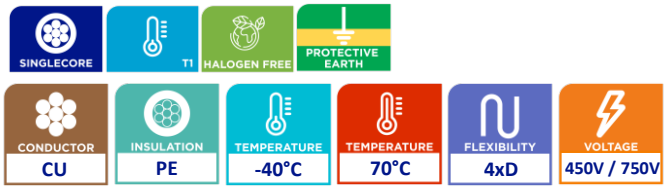
Type	Conductor			Cable		
	Geometry		Resistance (20°C)	Geometry		According to the Standard
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	
H07Z-K	1,50	30 x 0,26	13,30	0,7	2,8 – 3,5	1
H07Z-K	2,50	50 x 0,26	7,98	0,8	3,4 – 4,3	1
H07Z-K	4,00	56 x 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

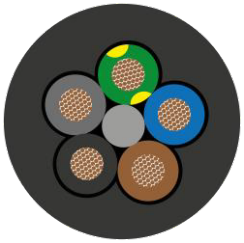
1. EN 50525-3-31

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



MULTICORE | UNSHIELDED | T1 | DATACENTERS | HALOGEN FREE | FLAME RETARDANT

CONDUCTOR	INSULATION	TEMPERATURE	TEMPERATURE	VOLTAGE	NO FLAME PROPAGATION acc. to IEC/EN 60332-1	CPR CLASS
CU	XPO	-40°C	90°C	450/750 V		Cca

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.

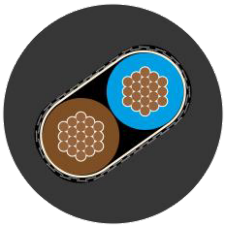
ACCORDING TO THE STANDARD

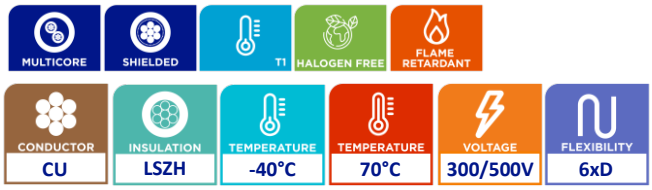
1. EN 50525-3-21
2. According client´s specifications

Type	Conductor				Core		Cable			
	Geometry			Resistance (20°C)	Geometry		Geometry			According to the Standard
	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

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

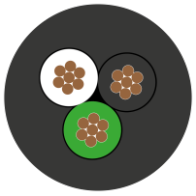
TECHNICAL DATA

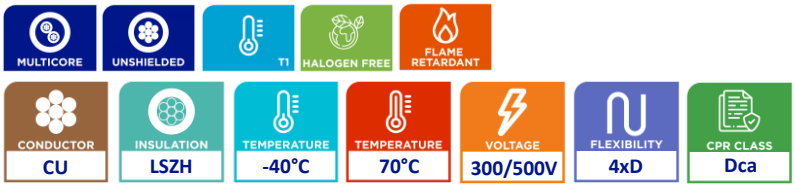
Temperature range:	-40°C to 70°C (for fixed installation) -5°C to 70°C (for occasionally moved)
Rated voltage:	300/500 V
Test Voltage:	3 000 V
Min. Bending Radius:	6xD (fixed installation) 15xD (occasional moved)

Type	Conductor			Core		Screen	Cable		According to the Standard
	Geometry		Resistance (20°C)	Geometry			Geometry		
	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

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

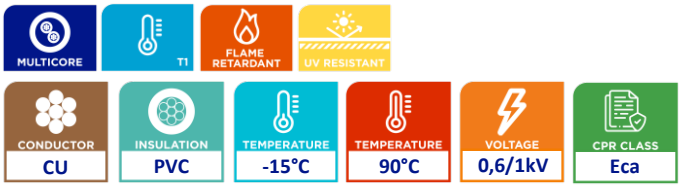
ACCORDING TO THE STANDARD

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

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

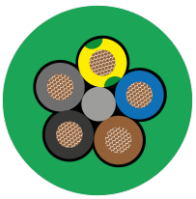
1. UNE 21123-2
2. IEC 60502-1

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



MULTICORE | T1 | HALOGEN FREE | FLAME RETARDANT | UV RESISTANT

CONDUCTOR	INSULATION	TEMPERATURE	TEMPERATURE	VOLTAGE	CPR CLASS
CU	LSZH	-15°C	90°C	0,6/1kV	Cca

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

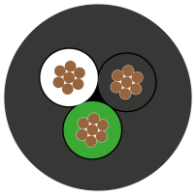
1. UNE 21123-4
2. IEC 60502-1

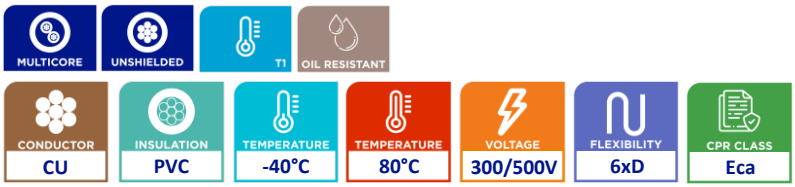
Type	Conductor			Core		Cable	
	Geometry		Resistance (20°C)	Geometry		Geometry	
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter nom.	Wall thickness nom.	Diameter nom.
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]
Single	1,50	30 x 0,26	13,3	0,7	2,9	-	-
Single	2,50	50 x 0,26	7,98	0,7	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

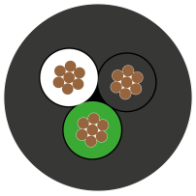
1. VDE 0207-363-3

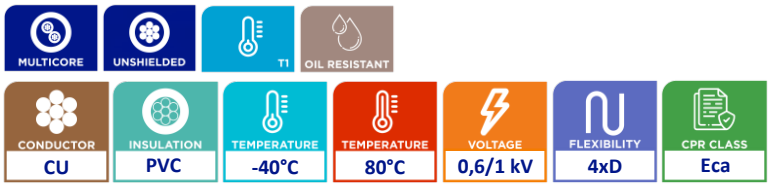
Type	Conductor			Core		Cable	
	Geometry		Resistance (20°C)	Geometry		Geometry	
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	Wall thickness nom.	Diameter
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]
YSLY	2 x 0,50	16 x 0,21	39,0	0,4	1,6 – 1,8	0,7	4,4 – 5,7
YSLY	3 x 0,50	16 x 0,21	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	Weight Approx.
	[mm²]	[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

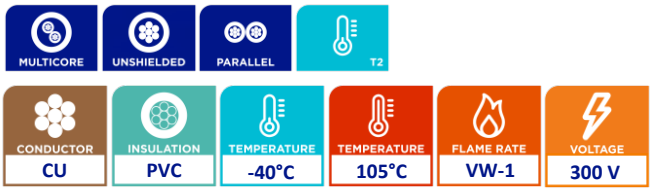
ACCORDING TO THE STANDARD

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

Flat Cable SPT-3

-40°C to 105°C



DESIGN

Conductor:	CU ETP1 according to EN 13602
Insulation material:	Plasticized PVC
Overall sheet insulation:	Plasticized PVC
Covering:	STP-3, acc. to UL 62

APPLICATION

Power cords for use in household appliances.

TECHNICAL DATA

Voltage level:	300V
Flame rate:	VW-1

ACCORDING TO THE STANDARD

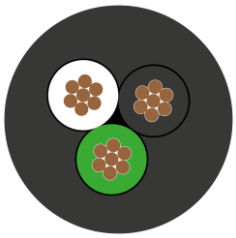
1. UL 62
2. CSA 22.2 No. 49-18

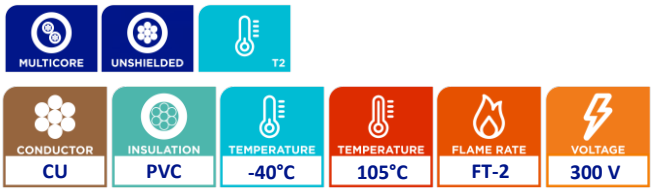
Type	Conductor			Flat Cable								
	Geometry			Geometry								According to the Standard
	SAE Conductor Size	Construction	Resistance (20°C)	Wall thickness		Distance between conductors min.	Diameter		Dimensions			
	No.		Bare Max.	At any Point Min.	After separation Min.		Min.	Max.	Height	Width		
		N x Ømax.[mm]	[mΩ/m]	[mm]		[mm]	[mm]		[mm]			
Flat Cable SPT-3	2 x 18	16 x 0,260	22,4	1,37	1,02	1,37	-	-	4,30 ± 0,30	9,67 ± 0,50		1, 2
Grounding wire	*18*	*16 x 0,260*	*22,4*	*0,38*	-	-	*1,95*	*2,15*				
Flat Cable SPT-3	2 x 18	41 x 0,16	22,4	1,37	1,02	1,37	-	-	4,30 ± 0,08	11,40 ± 0,20		1, 2
Grounding wire	*18*	*41 x 0,16*	*22,4*	*0,38*	-	-	*2,10*	*2,20*				
Flat Cable SPT-3	2 x 14	41 x 0,26	8,88	1,83	1,02	1,37	-	-	5,84 ± 0,12	13,08 ± 0,25		1, 2
Grounding wire	*14*	*41 x 0,26*	*8,88*	*0,38*	-	-	*2,65*	*2,85*				

Cable type		
Type	SAE Conductor Size	Weight approx.
	No.	[g/m]
Flat Cable SPT-3	2 x 18 + 18	64,5
Flat Cable SPT-3	2 x 18 + 18	68
Flat Cable SPT-3	2 x 14 + 14	-

SVT

-40°C to 105°C





DESIGN

Conductor:	CU ETP1 according to EN 13602
Insulation material:	Plasticized PVC
Jacket Material:	Plasticized PVC
Covering:	SVT Acc. to UL 62

TECHNICAL DATA

Voltage level:	300V
Temperature range:	-40°C … 105°C
Flame rate:	FT-2

CONSTRUCTION

PVC jacketed cable with twisted PVC single cores.

APPLICATION

Power cords for use in household appliances and equipment not exceeding 300 volts.

ACCORDING TO THE STANDARD

1. UL 62
2. CSA 22.2

Type	Conductor				Core		Cable			According to the Standard
	Geometry			Resistance (20°C)	Geometry		Geometry			
	SAE Conductor Size	Construction	Cross-section area max.	Bare max.	Average Thickness min.	Diameter	Lay length max.	Average Thickness min.	Diameter	
	No.	N x Ømax.[mm]	[mm²]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	[mm]	
SVT	3 x 18	41 x 0,165	0,836	22,4	0,38	2,0 – 2,2	44	0,76	5,84 – 6,73	1, 2

Cable type			
Type	SAE Conductor Size	Color	Weight approx.
	No.		[g/m]
SVT	3 x 18	According to the order	-

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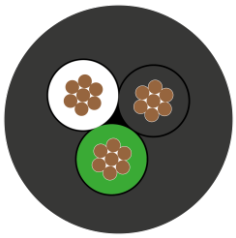
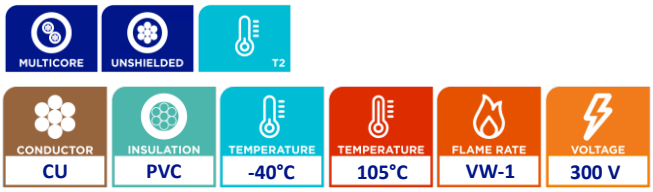
SJT

-40°C to 105°C





DESIGN

Conductor:	CU ETP1 according to EN 13602
Insulation material:	Plasticized PVC
Jacket Material:	Plasticized PVC
Covering:	SJT Acc. To UL 62

TECHNICAL DATA

Voltage level:	300V
Temperature range:	-40°C to 105°C
Flame rate:	VW-1

CONSTRUCTION

PVC jacketed cable with twisted PVC single cores.

APPLICATION

Power cords for use in household appliances and equipment not exceeding 300 volts.

ACCORDING TO THE STANDARD

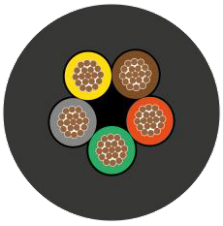
1. UL 62
2. CSA 49

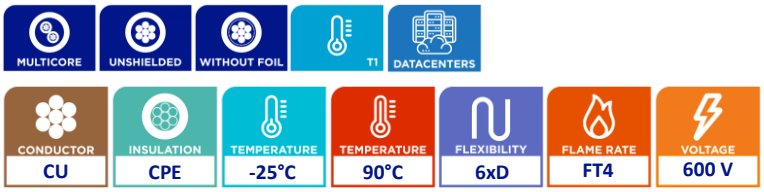
Type	Conductor				Core			Cable				
	Geometry			Resistance (20°C)	Geometry			Geometry				According to the Standard
	SAE Conductor Size	Construction	Cross-section area max.	Bare max.	Wall thickness min.	Wall thickness Average min.	Diameter	Lay length max.	Wall thickness min.	Wall thickness Average min.	Diameter	
	No.	N x Ønom.[mm]	[mm²]	[mΩ/m]	[mm]		[mm]	[mm]	[mm]		[mm]	
SJT	3 x 18	16 x 0,256	0,824	22,4	0,686	0,76	2,72 – 2,87	57	0,61	0,76	7,90 ±0,10	1, 2
SJT	3 x 17	19 x 0,257	1,06	17,8	0,686	0,76	2,95 – 3,05	57	0,61	0,76	8,25 ±0,10	1, 2
SJT	3 x 16	26 x 0,252	1,31	14,1	0,686	0,76	3,05 – 3,20	64	0,61	0,76	8,38 ±0,12	1, 2
SJT	3 x 14	41 x 0,247	2,12	8,88	0,686	0,76	3,50 – 3,65	83	0,61	0,76	9,57 ±0,20	1, 2
SJT	3 x 12	65 x 0,247	3,37	5,58	0,686	0,76	3,95 – 4,10	89	0,61	0,76	11,45 ±0,20	1, 2

Cable type			
Type	SAE Conductor Size	Color	Weight approx.
	No.		[g/m]
SJT	3 x 18	According to the order	85
SJT	3 x 17	According to the order	96
SJT	3 x 16	According to the order	107
SJT	3 x 14	According to the order	143
SJT	3 x 12	According to the order	211

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

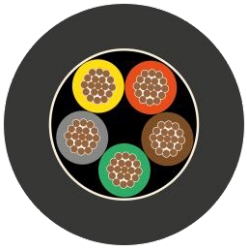
CPE jacketed cable with twisted XPO E-beam cross-linked single cores.

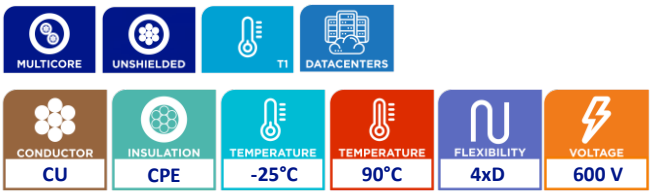
Type	Conductor				Core		Cable			
	Geometry			Resistance (20°C)	Geometry		Geometry			According to the Standard
	Cross-section		Construction	Bare max.	Wall thickness nom.	Diameter	Lay length	Wall thickness nom.	Diameter	
	[AWG]	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	[mm]	
Tray Cable	4 x 8	4 x 8,0	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

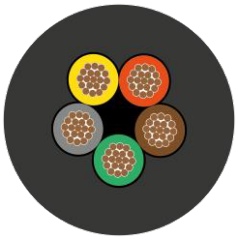
1. UL 1277
2. UL 83
3. According to client's specification

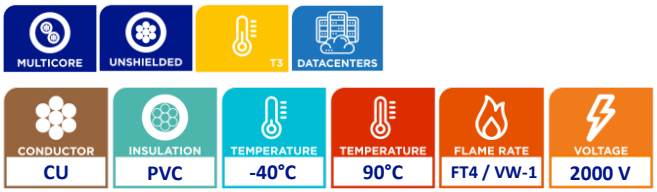
Type	Conductor				Core		Cable		
	Geometry			Resistance (20°C)	Geometry		Geometry		
	Cross-section		Construction	Bare max.	Wall thickness min./ Avg.	Diameter	Lay length	Wall thickness min./ Avg.	Diameter
	[AWG]	[mm²]	N x Ønom.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	[mm]
TC-ER (PVC/CPE)	5 x 6	5 x 13,0	266 x 0,249	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

TECHNICAL DATA

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

CONSTRUCTION

PVC jacketed cable with twisted XLPE single cores.

APPLICATION

Electrical power and control tray cables.

ACCORDING TO THE STANDARD

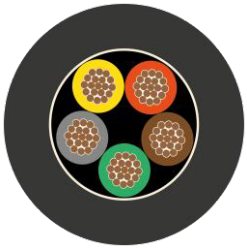
1. According client´s specifications
2. UL 1277
3. UL 44

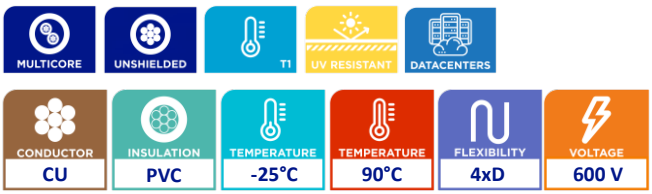
Type	Conductor				Core		Cable			
	Geometry			Resistance (20°C)	Geometry		Geometry			According to the Standard
	Cross-section		Construction	Bare max.	Wall thickness avg min. /min.	Diameter	Lay length	Wall thickness avg min. /min.	Diameter	
	[AWG]	[mm²]	N x Ø$_{max}$.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	[mm]	
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

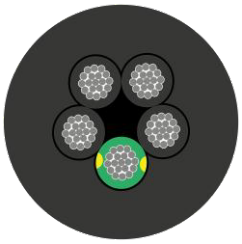
1. UL 1277
2. UL 83
3. According to client's specification

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



MULTICORE | UNSHIELDED | T1 | DATACENTERS

CONDUCTOR	INSULATION	TEMPERATURE	TEMPERATURE	FLEXIBILITY	FLAME RATE	VOLTAGE
SN	CPE	-25°C	90°C	6xD	FT4	600 V

DESIGN

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

TECHNICAL DATA

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

CONSTRUCTION

CPE jacketed cable with twisted XPE single cores.

APPLICATION

Electrical power and control tray cables

ACCORDING TO THE STANDARD

1. According client´s specifications
2. UL 1277

Type	Conductor				Core		Cable			According to the Standard
	Geometry			Resistance (20°C)	Geometry		Geometry			
	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

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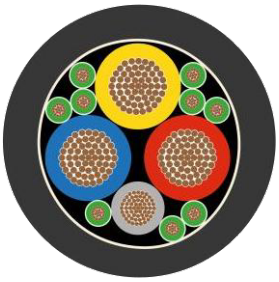
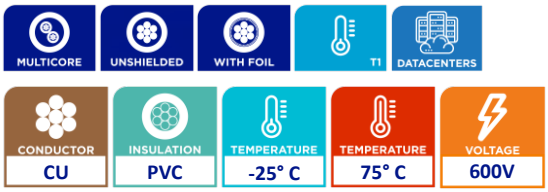
TC-ER-JP

-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

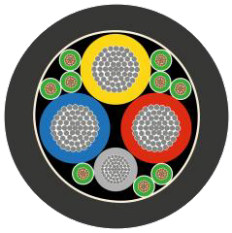
PVC jacketed cable with twisted PVC single cores.

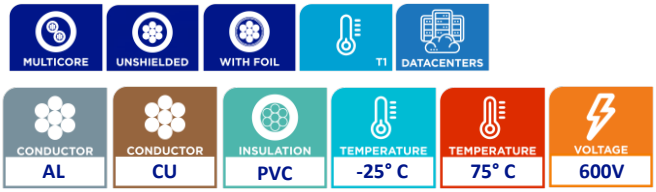
Type	Conductor				Core			Cable				
	Geometry			Resistance (20°C)	Geometry			Geometry				According to the Standard
	Cross-section		Construction	Bare max.	Wall thickness Average / Min any point	Wall thickness PA Min any point	Diameter	Lay length	Wall thickness Average	Wall thickness Min any point	Diameter	
	[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 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

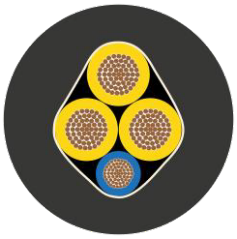
PVC jacketed cable with twisted PVC single cores.

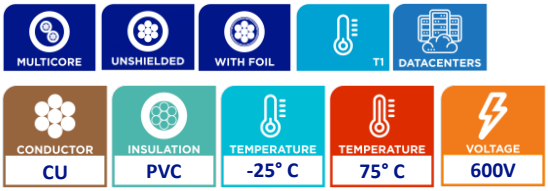
Type	Conductor					Core			Cable				
	Geometry			Resistance (20°C)		Geometry			Geometry				According to the Standard
	Cross-section		Construction	Aluminum Bare max.	Copper Bare max.	Wall thickness		Diameter	Lay length	Wall thickness		Diameter	
						Average / Min any point	PA Min any point			Average	Min 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

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					

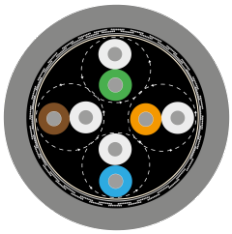
Cable type			
Type	Cross-section	Color	Weight Approx..
	[mm²]		[g/m]
TC-ER-JP (EV)	3 x 8,0 + 1 x 5,0	According to the order	564
TC-ER-JP (EV)	3 x 13,0 + 1 x 8,0	According to the order	924

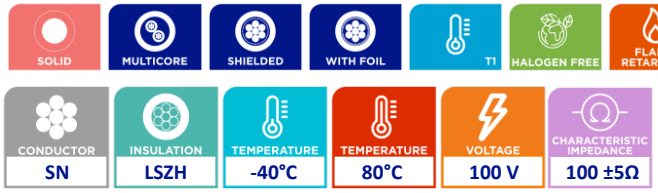
APPLIANCE AND BUILDING CABLES

COMMUNICATION

COFNET LAN
CAT5e SF/UTP H sn

-40°C ... 80°C





DESIGN

Conductor:	CU ETP1 according to EN 13602, tinned
Insulation material:	Foam-skin Polyolofin
Jacket material:	LSZH
	Halogen Free, Flame Retardant, UV Resistant

CONSTRUCTION

LSZH jacketed cable, tinned copper braid, AL/PET foil, PET tape and foam-skin polyolofin twisted pairs (SF/UTP).

TECHNICAL DATA

Temperature range:	-40°C to 80°C
Operating Voltage (peak):	≤ 100 V
Test Voltage:	1 000 V
Impedance:	100 ±5Ω (at 100 MHz)
Capacitance:	≤ 56 nF/km (at 1 kHz)
Capacitance unbalance:	≤ 1 600 pF/km
Differential Delay:	≤ 45 ns/100m

ACCORDING TO THE STANDARD

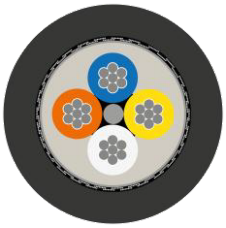
1. UL 444 (CMR)
2. IEC 61156-5

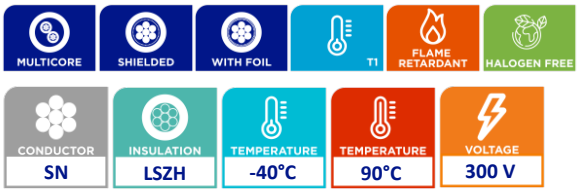
Type	Conductor			Core		Screen	Cable	
	Geometry		Resistance (20°C)	Geometry			Geometry	
	Cross-section	Construction	Tinned max.	Wall thickness min.	Diameter	Coverage nom.	Wall thickness nom.	Diameter
	[mm²]	N x Ønom.[mm]	[mΩ/m]	[mm]	[mm]	[%]	[mm]	[mm]
COFNET LAN CAT5e SF/UTP H sn	4 x (2 x 0,20)	1 x 0,50	93,8	0,2	1,0 ±0,1	60	0,65	6,2 ±0,2

COFNET LAN CAT5e SF/UTP H sn				
Frequency	IL max.	RL min.	Phase Delay max.	NEXT min.
[MHz]	[dB/100m]	[dB]	[ns/100m]	[dB]
1	2,1	20	570	62,3
4	4,1	23	552	53,3
10	6,5	25	545,4	47,3
16	8,3	25	543	44,2
20	9,3	25	542	42,8
31,25	11,7	23,6	540,4	39,9
62,5	17,0	21,5	538,6	35,4
100	22,0	20,1	537,6	32,3
125	24,9	19,4	537,2	30,8

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

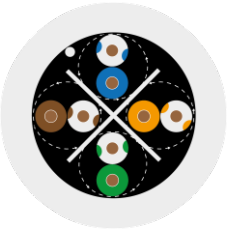
1. EN 50305

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 LAN
CAT6 U/UTP H

-20°C ... 75°C



SOLID | MULTICORE | T1 | HALOGEN FREE | FLAME RETARDANT

CONDUCTOR	INSULATION	TEMPERATURE	TEMPERATURE	CHARACTERISTIC IMPEDANCE	CPR CLASS
CU	LSZH	-20°C	75°C	100 Ω	Cca

DESIGN

Conductor:	CU ETP1 according to EN 13602
Insulation material:	HDPE
Jacket material:	LSZH, Halogen Free, Flame Retardant

CONSTRUCTION

LSZH jacketed cable, HDPE twisted pairs with cross-web and rip cord (U/UTP).

TECHNICAL DATA

Temperature range:	-20°C to 75°C
Impedance:	100 ±15Ω (at 100 MHz)
Mutual Capacitance:	< 56 nF/km (at 1 kHz)
Capacitance unbalance:	≤ 1 600 pF/km
Differential Delay:	≤ 45 ns/100m
CPR Classification:	Cca-s1a,d1,a1

ACCORDING TO THE STANDARD

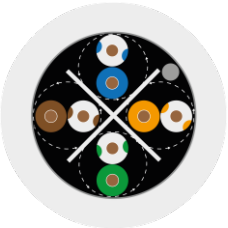
1. ISO 11801 Class E
2. ANSI/TIA-568.2-D Category 6
3. IEC 61196-5

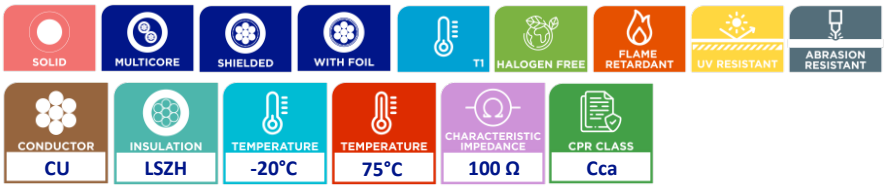
Type	Conductor			Core		Cable	
	Geometry		Resistance (20°C)	Geometry		Geometry	
	Cross-section	Construction	Bare max.	Wall thickness min.	Diameter	Wall thickness min./nom.	Diameter
	[mm²]	N x Ønom.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]
COFNET LAN CAT6 U/UTP H	4 x (2 x 0,25)	1 x 0,56	70	0,18	0,93 – 1,06	0,46/0,58	5,5 – 6,1

COFNET LAN CAT6 U/UTP H				
Frequency	IL max.	RL min.	Phase Delay max.	NEXT min.
[MHz]	[dB/100m]	[dB]	[ns/100m]	[dB]
1	2,03	20	570	74,3
4	3,78	23	552	65,3
8	5,32	24,5	546,73	60,8
10	5,95	25	545,38	59,3
16	7,55	25	543	56,2
20	8,47	25	542,05	54,8
25	9,51	24,3	541,2	53,3
31,25	10,67	23,6	540,44	51,9
62,5	15,38	21,5	538,55	47,7
100	19,80	20,1	537,6	44,3
200	28,98	18	536,54	39,8
250	32,85	17,3	536,27	38,3

COFNET LAN
CAT6A F/UTP H

-20°C ... 75°C





DESIGN

Conductor:	CU ETP1 according to IEC 60228
Insulation material:	Polyolefin
Jacket material:	LSZH Halogen Free, Flame Retardant, UV Resistant, Abrasion Resistant

CONSTRUCTION

LSZH jacketed cable, aluminium foil, drain wire, Polyolefin twisted pairs with cross-web (F/UTP).

TECHNICAL DATA

Temperature range:	-20°C to 75°C
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
CPR class:	Cca

ACCORDING TO THE STANDARD

1. ISO/IEC 11801
2. IEC 61196-5
3. EN 50173

Type	Conductor			Core		Cable	
	Geometry		Resistance (20°C)	Geometry		Geometry	
	Cross-section	Construction	Bare Tinned* max.	Wall thickness min.	Diameter	Wall thickness min.	Diameter
	[mm²]	N x Ønom.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]
COFNET LAN CAT6A F/UTP H	4 x (2 x 0,25)	1 x 0,56	93,8	0,22	1,05 – 1,15	0,40	6,9 – 7,5
Drain Wire	0,13 sn	1 x 0,40	141 *	-	-		

COFNET LAN CAT6A F/UTP H				
Frequency	IL max.	RL min.	Phase Delay max.	NEXT min.
[MHz]	[dB/100m]	[dB]	[ns/100m]	[dB]
1	2,1	20	-	72,3
5	4,2	23,5	-	61,8
10	5,9	25	-	57,3
20	8,4	25	542,0	52,8
60	14,7	20,9	538,6	45,6
100	19,1	19,0	537,6	42,3
200	27,6	16,4	536,5	37,8
300	34,3	15,6	536,1	35,1
500	45,3	15,6	535,6	31,8

Cable type			
Type	Cross-section [mm²]	Color of sheath*	Weight approx. [g/m]
COFNET LAN CAT6A F/UTP H	4 x (2 x 0,25) + 0,13sn	WH VT	-

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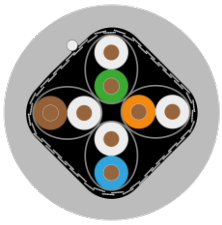
COFNET LAN
CAT6A S/FTP H

-20°C ... 75°C



SOLID | MULTICORE | SHIELDED | WITH FOIL | T1 | HALOGEN FREE | FLAME RETARDANT

CONDUCTOR	INSULATION	TEMPERATURE	TEMPERATURE	CHARACTERISTIC IMPEDANCE	CPR CLASS
CU	LSZH	-20°C	75°C	100 Ω	Cca

DESIGN

Conductor:	CU ETP1 according to IEC 60228
Insulation material:	Foam-skin Polyolefin
Jacket material:	LSZH, Halogen Free, Flame Retardant

CONSTRUCTION

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

TECHNICAL DATA

Temperature range:	-20°C to 75°C
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
CPR Class:	Cca-s1a,d1,a1

ACCORDING TO THE STANDARD

1. ISO/IEC 11801
2. ISO/IEC 61156-5
3. EN 50173

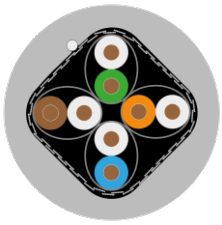
Type	Conductor			Core		Screen	Cable	
	Geometry		Resistance (20°C)	Geometry			Geometry	
	Cross-section	Construction	Bare max.	Wall thickness min.	Diameter	Coverage nom.	Wall thickness min.	Diameter
	[mm²]	N x Ønom.[mm]	[mΩ/m]	[mm]	[mm]	[%]	[mm]	[mm]
COFNET LAN CAT6A S/FTP H	4 x (2 x 0,25)	1 x 0,56	93,8	0,30	1,33 ±0,05	40	0,55	7,6 ±0,5

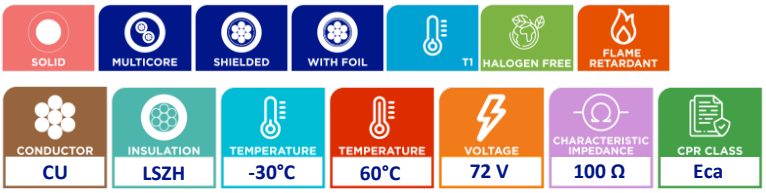
COFNET LAN CAT6A S/FTP H				
Frequency	IL max.	RL min.	Phase Delay max.	NEXT min.
[MHz]	[dB/100m]	[dB]	[ns/100m]	[dB]
1	2,1	20	-	72,3
5	4,2	23,5	-	61,8
10	5,9	25	-	57,3
20	8,4	25	542,0	52,8
60	14,7	20,9	538,6	45,6
100	19,1	19,0	537,6	42,3
200	27,6	16,4	536,5	37,8
300	34,3	15,6	536,1	35,1
500	45,3	15,6	535,6	31,8

Cable type			
Type	Cross-section	Color of sheath*	Weight approx.
	[mm²]		[g/m]
COFNET LAN CAT6A S/FTP H	4 x (2 x 0,25)	GY	-
		WH	
		VT	

COFNET LAN
CAT7 S/FTP H

-30°C ... 60°C





DESIGN

Conductor:	CU ETP1 according to EN 13602
Insulation material:	Foam-skin Polyethylene
Jacket material:	LSZH, Flame Retardant

TECHNICAL DATA

Temperature range:	-30°C to 60°C
Rated Voltage:	72 V DC
Mutual Capacitance:	< 56 pF/m
Capacitance Unbalance:	≤ 1600 pF/km
Characteristic Impedance:	100 Ω (nominal value)
CPR:	Eca

CONSTRUCTION

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

ACCORDING TO THE STANDARD

1. ISO/IEC 11801-1
2. EN 50173-1

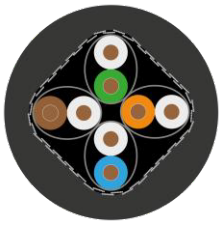
Type	Conductor				Core		Screen	Cable		
	Geometry			Resistance (20°C)	Geometry			Geometry		
	Cross-section		Construction	Bare max.	Wall thickness min.	Diameter	Coverage nom.	Lay length	Wall thickness min.	Diameter
	[AWG]	[mm²]	N x Ønom.[mm]	[mΩ/m]	[mm]	[mm]	[%]	[mm]	[mm]	[mm]
COFNET LAN CAT7 S/FTP H	4 x (2 x 24)	4 x (2 x 0,25)	1 x 0,56	95,0	0,3	1,4 ±0,1	30	27 (pair) 90 (final)	0,5	7,0 ±0,3

COFNET LAN CAT7 S/FTP H										
Frequency	Insertion Loss max.	NEXT min.	PSNEXT min.	ACR min.	PSACR min.	ACRF (ELFEXT) min.	PSACRF (PSELFEXT) min.	Return Loss min.	TCL min.	ELTCTL min.
[MHz]	[dB/100m]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
1	2	78	75	76	73	78	75	20	40	35
4	3,7	78	75	74,3	71,3	78	75	23	34	23
10	5,9	78	75	72,1	69,1	75,3	72,3	25	30	15
16	7,4	78	75	70,6	67,6	71,2	68,2	25	28	10,9
31,2	10,4	78	75	67,6	64,6	65,4	62,4	23,6	25,1	5,1
62,5	14,9	75,5	72,5	60,6	57,6	59,4	56,4	21,5	22	-
100	19	72,4	69,4	53,4	50,4	55,3	52,3	20,1	20	-
125	21,4	70,9	67,9	49,6	46,6	53,4	50,4	19,4	19	-
200	27,5	67,9	64,9	40,4	37,4	49,3	46,3	18	17	-
250	31	66,4	63,4	35,5	32,5	47,3	44,3	17,3	16	-
300	34,2	65,2	62,2	31,1	28,1	45,8	42,8	17,3	-	-
600	50,1	60,7	57,7	10,6	7,6	39,7	36,7	17,3	-	-
1 000	66,9	57,4	54,4	-	-	35,3	32,3	15,1	-	-

Note: *Limits below 4 MHz are for information only; Values at 1 000 MHz are for information only. Reference standard: IEC 61156-5*

COFNET LAN
CAT7 S/FTP H/1

-20°C ... 70°C



SOLID | MULTICORE | SHIELDED | WITH FOIL | T1 | HALOGEN FREE | FLAME RETARDANT

CONDUCTOR	INSULATION	TEMPERATURE	TEMPERATURE	FLEXIBILITY	CHARACTERISTIC IMPEDANCE	CPR CLASS
CU	LSZH	-20°C	70°C	4xD	100 Ω	Dca

DESIGN

Conductor:	CU ETP1 according to EN 13602
Insulation material:	Foam-skin Polyethylene
Jacket material:	LSZH, Flame retardant

TECHNICAL DATA

Temperature range:	-20°C to 70°C (fixed) 0°C to 50°C (moved)
Min. Bending radius:	4xD (fixed installation) 8xD (moving application)
Impedance:	100 Ω
Transfer impedance:	5 Ω/km
CPR classification:	Dca

CONSTRUCTION

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

ACCORDING TO THE STANDARD

1. ISO/IEC 11801-1
2. ISO/IEC 11801-6
3. ISO/IEC 61156-5

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.	Diameter
	[AWG]	[mm²]	N x Ønom.[mm]	[mΩ/m]	[mm]	[mm]	[%]	[mm]	[mm]
COFNET LAN CAT7 S/FTP H/1	4 x (2 x 23)	4 x (2 x 0,25)	1 x 0,56	75	0,3	1,35 ±0,1	50	0,5	7,5 ±0,3

COFNET LAN CAT7 S/FTP H/1									
Frequency	Attenuation nom.	Attenuation typical value	NEXT nom.	NEXT typical value	PS-NEXT typical value	ELFEXT typical value	PS-ELFEXT typical value	PS-ACR typical value	Return Loss typical value
[MHz]	[dB/100m]	[dB/100m]	[dB]	[dB]	[dB]	[dB/100m]	[dB/100m]	[dB]	[dB]
1	2	1,9	80	100	97	90	87	95,1	27
10	5,7	5,5	80	100	97	90	87	95,1	30
16	7,2	6,9	80	100	97	86,7	83,7	90	30
20	8,1	7,8	80	100	97	84,8	81,8	89,2	30
100	18,8	18	72	94	91,3	70,8	67,8	73,3	25,1
155	23,4	22,7	70	91	87,9	67	64	65,1	23,8
300	33,3	32,5	65	85	82,7	61,3	58,3	50,3	21,8
600	48,9	47,6	61	80	77,3	55,2	52,2	29,6	19,7
900	-	60,0	-	77	74,1	51,7	48,7	14,1	18,4
1 000	-	63,8	-	76	73,3	50,8	47,8	9,5	18,1

COFNET LAN
CAT7A S/FTP H

-30°C ... 60°C

SOLID | MULTICORE | SHIELDED | WITH FOIL | T1 | HALOGEN FREE | FLAME RETARDANT

CONDUCTOR	INSULATION	TEMPERATURE	TEMPERATURE	FLEXIBILITY	CPR CLASS
CU	LSZH	-30°C	60°C	4xD	Dca

DESIGN

Conductor:	CU ETP1 according to EN 13602
Insulation material:	Foam-skin Polyethylene
Jacket material:	LSZH, Flame retardant

CONSTRUCTION

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

TECHNICAL DATA

Temperature range:	-30°C to 60°C (fixed) 0°C to 50°C (moved)
Min. Bending radius:	4xD (fixed installation) 8xD (moving application)
CPR classification:	Dca

ACCORDING TO THE STANDARD

1. ISO/IEC 11801
2. EN 50173

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.	Diameter
	[AWG]	[mm²]	N x Ønom.[mm]	[mΩ/m]	[mm]	[mm]	[%]	[mm]	[mm]
COFNET LAN CAT7A S/FTP H	4 x (2 x 23)	4 x (2 x 0,25)	1 x 0,56	75	0,3	1,35 ±0,1	40	0,3	7,5 ±0,3
COFNET LAN CAT7A S/FTP H	4 x (2 x 22)	4 x (2 x 0,34)	1 x 0,64	53,5	0,3	1,5 ±0,1	50	0,3	8,0 ±0,3

COFNET LAN CAT7A S/FTP H									
Frequency	Attenuation max.	Attenuation typical value 4x(2x0,25)	Attenuation typical value 4x(2x0,34)	NEXT	PS-NEXT	ACR	PS-ACR	ACR-F	RL
[MHz]	[dB/100m]	[dB/100m]	[dB/100m]	[dB]	[dB]	[dB]	[dB]	[dB/100m]	[dB/100m]
1	2,1	1,93	1,8	78,0	75,0	75,9	72,9	78,0	20,0
4	3,7	3,55	3,3	78,0	75,0	74,3	71,3	78,0	23,0
10	5,8	5,49	5,3	78,0	75,0	72,2	69,2	75,3	25,0
16	7,3	7,01	6,7	78,0	75,0	70,7	67,7	71,2	25,0
31,2	10,3	10,05	9,3	78,0	75,0	67,7	64,7	65,4	23,6
62,5	14,6	14,38	13,4	78,0	75,0	63,4	60,4	59,4	21,5
100	18,5	18,24	17,1	75,4	72,4	56,9	53,9	55,3	20,1
250	29,7	29,18	27	69,4	66,4	39,7	36,7	47,3	17,3
500	42,8	41,8	39,3	64,9	61,9	22,2	19,2	41,3	17,3
600	47,1	46,1	43,3	63,7	60,7	16,6	13,6	39,7	17,3
1 000	61,9	60,79	57,7	60,4	57,4	-	-	35,3	15,1
1 200	-	67,36	63,9	59,2	56,2	-	-	33,7	14,3
1 300	-	69,6	67,5	58,7	55,7	-	-	33,0	13,9
1 500	-	-	74	54,9	51,9	-	-	31,8	13,3

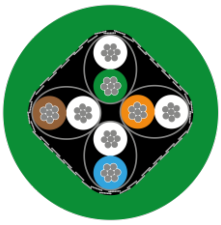
Typical value of transmission technical attributes (values under 4 and over 1 000 MHz are informative)

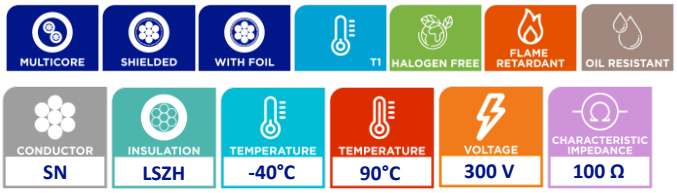
COFNET LAN CAT7 S/FTP H	
Frequency	**Transfer Impedance max.**
[MHz]	**[mΩ/m]**
1	50
10	100
30	200
100	1 000

Transfer Impedance Class: Grade 2
Screening Class: Type Ib
Table Notes: *Coupling Attenuation*

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

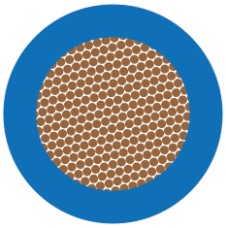
Transfer Impedance Class: Grade 1
Screening Class: Type I
Table Notes: *Coupling Attenuation*

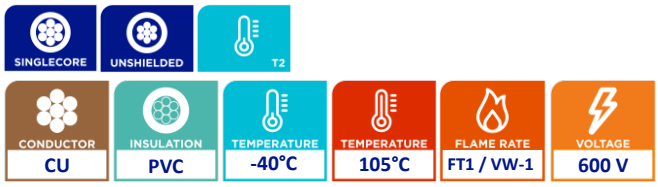
APPLIANCE AND BUILDING CABLES

UL

UL 1015/1230

-40°C to 105°C





DESIGN

Conductor: CU ETP1 according to EN 13602, bare
Insulation material: plasticized PVC
Covering: UL 1015 , acc. to UL 758

TECHNICAL DATA

Voltage level: 600V
Flame rate: FT1 / VW-1

APPLICATION

Internal Wiring of Appliances up to 105° dry and 60° wet.
CSA type AWM for use on appliance wiring material and TEW for use on equipment and lead wires.

ACCORDING TO THE STANDARD

1. UL 758
2. CSA C22.2 No.210-15

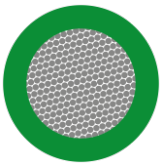
Type	Conductor						Core				
	Geometry						Geometry				According to the Standard
	SAE Conductor Size	Construction	Minimum conductor Area	Diameter nom.	Resistance (20°C)	Lay length	Wall thickness		Diameter		
	No.				Bare max.	max.*	min.	Average min.	min.	max.	
		N x Ønom.[mm]	[mm²]	[mm]	[mΩ/m]	[mm]	[mm]		[mm]		
UL 1015/1230	26	7 x 0,160	0,126	0,47	140	16	0,686	0,76	2,02	2,16	1, 2
UL 1015/1230	24	7 x 0,196	0,201	0,60	87,6	18	0,686	0,76	2,13	2,25	1, 2
UL 1015/1230	22	7 x 0,244	0,318	0,76	55,4	20	0,686	0,76	2,24	2,38	1, 2
UL 1015/1230	20	10 x 0,258	0,509	0,95	34,6	32	0,686	0,76	2,52	2,70	1, 2
UL 1015/1230	18	16 x 0,256	0,807	1,15	21,8	51	0,686	0,76	2,72	2,87	1, 2
UL 1015/1230	18	19 x 0,235	0,807	1,15	21,8	51	0,686	0,76	2,72	2,87	1, 2
UL 1015/1230	18	41 x 0,160	0,807	1,15	21,8	51	0,686	0,76	2,70	2,90	1, 2
UL 1015/1230	16	19 x 0,295	1,28	1,38	13,7	51	0,686	0,76	3,05	3,20	1, 2
UL 1015/1230	16	26 x 0,252	1,28	1,38	13,7	51	0,686	0,76	3,05	3,20	1, 2
UL 1015/1230	16	65 x 0,160	1,28	1,40	13,7	51	0,686	0,76	3,10	3,30	1, 2
UL 1015/1230	14	19 x 0,372	2,04	1,80	8,62	51	0,686	0,76	3,40	3,55	1, 2
UL 1015/1230	14	41 x 0,253	2,04	1,80	8,62	51	0,686	0,76	3,40	3,55	1, 2
UL 1015/1230	13	140 x 0,154	2,58	2,10	6,82	51	0,686	0.76	3,70	3,90	1, 2
UL 1015/1230	12	19 x 0,468	3,24	2,30	5,43	51	0,686	0,76	3,84	4,03	1, 2
UL 1015/1230	12	65 x 0,253	3,24	2,30	5,43	51	0,686	0,76	3,91	4,06	1, 2
UL 1015/1230	11	224 x 0,153	4,09	6,65	4,30	51	0,686	0,76	4,25	4,45	1, 2
UL 1015/1230	10	105 x 0,251	5,16	2,95	3,409	64	0,686	0,76	4,55	4,75	1, 2
UL 1015	8	133 x 0,285	8,20	3,76	2,144	76	1,02	1,14	6,30	6,70	1
UL 1015	6	133 x 0,355	13,03	4,72	1,325	89	1,372	1,54	8,15	8,35	1
UL 1015	2	665 x 0,252	32,95	7,52	0,529	120	1,372	1,54	10,90	11,20	1

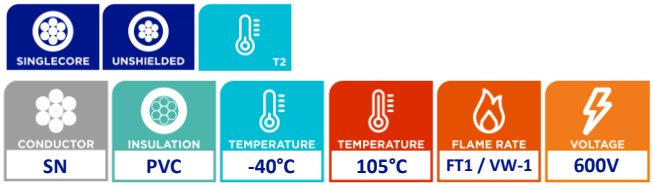
* According to UL 758.

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.	N x Ønom. [mm]	[g/m]
UL 1015/1230	26	7 x 0,160	5,6
UL 1015/1230	24	7 x 0,196	6,6
UL 1015/1230	22	7 x 0,244	8,3
UL 1015/1230	20	10 x 0,258	12
UL 1015/1230	18	16 x 0,256	15
UL 1015/1230	18	19 x 0,235	15
UL 1015/1230	18	41 x 0,160	15
UL 1015/1230	16	19 x 0,295	21
UL 1015/1230	16	26 x 0,252	21
UL 1015/1230	16	65 x 0,160	22
UL 1015/1230	14	19 x 0,372	29
UL 1015/1230	14	41 x 0,253	29
UL 1015/1230	13	140 x 0,154	35
UL 1015/1230	12	19 x 0,470	42
UL 1015/1230	12	65 x 0,253	42
UL 1015/1230	11	224 x 0,153	51
UL 1015/1230	10	105 x 0,251	62
UL 1015	8	133 x 0,285	104,5
UL 1015	6	133 x 0,355	168,5
UL 1015	2	665 x 0,252	367,6

UL 1015/1230 sn

-40°C to 105°C





DESIGN

Conductor: CU ETP1 according to EN 13602, tinned
Insulation material: plasticized PVC
Covering: UL 1015
acc. to UL 758

APPLICATION

Internal Wiring of Appliances up to 105° dry and 60° wet.
CSA type AWM for use on appliance wiring material and TEW for use on equipment and lead wires.

TECHNICAL DATA

Voltage level: 600V
Flame rate: FT1 / VW-1

ACCORDING TO THE STANDARD

1. UL 758
2. CSA C22.2 No.210-15
3. According client´s specifications

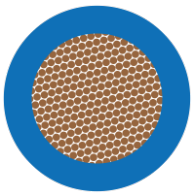
Type	Conductor						Core				According to the Standard
	Geometry						Geometry				
	SAE Conductor Size	Construction	Minimum conductor Area	Diameter nom.	Resistance (20°C)	Lay length	Wall thickness		Diameter		
	No.				Tinned max.	Max.*	min.	Average min.	min.	max.	
		NxØnom. [mm]	[mm²]	[mm]	[mΩ/m]	[mm]	[mm]		[mm]		
UL 1015/1230 sn	26	7 x 0,160	0,126	0,47	150	15	0,686	0,76	2,05	2,20	1, 2
UL 1015/1230 sn	24	7 x 0,200	0,201	0,56	94,2	18	0,686	0,76	2,14	2,28	1, 2
UL 1015/1230 sn	22	7 x 0,244	0,318	0,76	59,4	20	0,686	0,76	2,24	2,38	1, 2
UL 1015/1230 sn	22	26 x 0,126	0,318	0,76	59,4	20	0,686	0,76	2,24	2,38	1, 2
UL 1015/1230 sn	20	10 x 0,258	0,509	0,95	36,7	32	0,686	0,76	2,52	2,76	1, 2
UL 1015/1230 sn	20	26 x 0,160	0,509	0,95	36,7	32	0,686	0,76	2,52	2,76	1, 2
UL 1015/1230 sn	18	16 x 0,256	0,807	1,15	23,2	51	0,686	0,76	2,72	2,87	1, 2
UL 1015/1230 sn	18	41 x 0,160	0,807	1,15	23,2	51	0,686	0,76	2,72	2,87	1, 2
UL 1015/1230 sn	16	26 x 0,252	1,28	1,38	14,6	51	0,686	0,76	3,05	3,20	1, 2
UL 1015/1230 sn (LL 19)	14	19 x 0,41	2,04	1,80	8,96	19	0,686	0,76	3,40	3,55	1, 2, 3
UL 1015/1230 sn (LL 51)	14	19 x 0,41	2,04	1,80	8,96	51	0,686	0,76	3,40	3,55	1, 2
UL 1015/1230 sn	14	41 x 0,253	2,04	1,80	8,96	51	0,686	0,76	3,40	3,55	1, 2
UL 1015/1230 sn	14	168 x 0,125	2,04	1,90	8,96	51	0,686	0,76	3,70	3,90	1, 2
UL 1015/1230 sn	12	65 x 0,253	3,24	2,30	5,64	51	0,686	0,76	3,91	4,06	1, 2
UL 1015/1230 sn	10	105 x 0,251	5,16	2,94	3,546	64	0,686	0,76	4,55	4,75	1, 2
UL 1015 sn	8	133 x 0,282	8,20	3,80	2,23	76	1,016	1,14	6,30	6,70	1
UL 1015 sn	6	133 x 0,355	13,03	4,75	1,403	89	1,372	1,52	8,15	8,35	1

* According to UL 758

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.	N x Ønom. [mm]	[g/m]
UL 1015/1230 sn	26	7 x 0,153	6,3
UL 1015/1230 sn	24	7 x 0,200	7,0
UL 1015/1230 sn	22	7 x 0,244	8,3
UL 1015/1230 sn	22	26 x 0,126	8,3
UL 1015/1230 sn	20	10 x 0,258	12
UL 1015/1230 sn	20	26 x 0,160	12
UL 1015/1230 sn	18	16 x 0,256	15
UL 1015/1230 sn	18	41 x 0,160	15
UL 1015/1230 sn	16	26 x 0,252	21
UL 1015/1230 sn (LL 19)	14	19 x 0,41	29
UL 1015/1230 sn (LL 51)	14	19 x 0,41	29
UL 1015/1230 sn	14	41 x 0,253	29
UL 1015/1230 sn	14	168 x 0,125	29
UL 1015/1230 sn	12	65 x 0,253	42
UL 1015/1230 sn	10	105 x 0,251	62
UL 1015 sn	8	133 x 0,282	104,5
UL 1015 sn	6	133 x 0,355	168,5

UL 1028

-40°C to 105°C



SINGLECORE | UNSHIELDED | T2

CONDUCTOR	INSULATION	TEMPERATURE	TEMPERATURE	FLAME RATE	VOLTAGE
CU	PVC	-40°C	105°C	FT1 / VW-1	600V

DESIGN

Conductor: CU ETP1 according to EN 13602, bare
Insulation material: plasticized PVC
Covering: UL 1028
acc. to UL 758

TECHNICAL DATA

Voltage level: 600V
Flame rate: FT1 / VW-1

APPLICATION

Internal Wiring of Appliances up to 105° dry and 60° wet.
CSA type AWM for use on appliance wiring material and TEW for use on equipment and lead wires.

ACCORDING TO THE STANDARD

1. UL 758

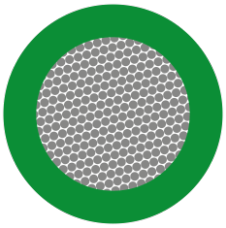
Type	Conductor						Core				
	Geometry						Geometry				According to the Standard
	SAE Conductor Size	Construction	Minimum conductor Area	Diameter nom.	Resistance (20°C)	Lay length	Wall thickness		Diameter		
	No.				Bare max.	max.*	min.	Average min.	min.	max.	
		N x Ønom. [mm]	[mm²]	[mm]	[mΩ/m]	[mm]	[mm]		[mm]		
UL 1028	8	133 x 0,285	8,20	3,76	2,144	76	1,02	1,14	6,30	6,70	1
UL 1028	8	168 x 0,251	8,20	3,76	2,105	76	1,02	1,14	6,30	6,70	1

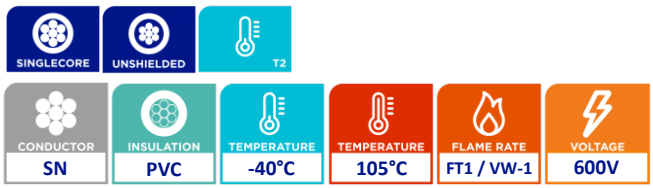
* According to UL 758

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.		
		N x Ønom. [mm]	[g/m]
UL1028	8	133 x 0,285	107
UL1028	8	168 x 0,251	107

UL 1028 Sn

-40°C to 105°C





DESIGN

Conductor:	CU ETP1 according to EN 13602, tinned
Insulation material:	plasticized PVC
Covering:	UL 1028 acc. to UL 758

APPLICATION

Internal Wiring of Appliances up to 105° dry and 60° wet.
CSA type AWM for use on appliance wiring material and TEW for use on equipment and lead wires.

TECHNICAL DATA

Voltage level:	600V
Flame rate:	FT1 / VW-1

ACCORDING TO THE STANDARD

1. UL 758

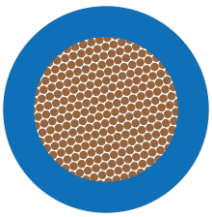
Type	Conductor						Core				
	Geometry						Geometry				According to the Standard
	SAE Conductor Size	Construction	Minimum conductor Area	Diameter nom.	Resistance (20°C)	Lay length	Wall thickness		Diameter		
	No.				Tinned max.	max.*	min.	Average min.	min.	max.	
		N x Ønom. [mm]	[mm²]	[mm]	[mΩ/m]	[mm]	[mm]		[mm]		
UL 1028 Sn	8	133 x 0,285	8,20	3,76	2,23	76	1,02	1,14	6,30	6,70	1

* According to UL 758.

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.		
		N x Ønom. [mm]	[g/m]
UL1028	8	133 x 0,285	109

UL 1061/10002

-40°C to 105°C



SINGLECORE | UNSHIELDED | T2

CONDUCTOR	INSULATION	TEMPERATURE	TEMPERATURE	FLAME RATE	VOLTAGE
CU	SR-PVC	-40°C	105°C	VW-1	300 V

DESIGN

Conductor: CU ETP1 according to EN 13602
Insulation material: SR-PVC
Covering: UL 1061 , acc. to UL 758

TECHNICAL DATA

Voltage level: 300V
Flame rate: VW-1

APPLICATION

Internal wiring in electric bookkeeping, accounting, time-recording machines or electronic equipment if within a chassis or protected from mechanical injury.

ACCORDING TO THE STANDARD

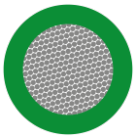
1. UL 758

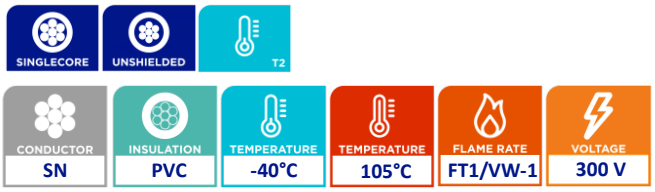
Type	Conductor					Core				
	Geometry					Geometry				According to the Standard
	SAE Conductor Size	Construction	Conductor Area		Resistance (20°C)	Wall thickness		Diameter		
	No.		nom.	min.	Bare max.	min.	Average min.	min.	max.	
		N x Ønom.[mm]	[mm²]		[mΩ/m]	[mm]		[mm]		
UL 1061/10002	26	7 x 0,160	0,128	0,126	140	0,178	0,229	0,95	1,05	1
UL 1061/10002	24	7 x 0,196	0,205	0,201	94,2	0,178	0,229	1,10	1,20	1
UL 1061/10002	22	7 x 0,250	0,324	0,318	55,4	0,178	0,229	1,20	1,40	1
UL 1061/10002	20	10 x 0,258	0,519	0,509	34,6	0,178	0,229	1,40	1,60	1
UL 1061/10002	20	41 x 0,128	0,519	0,509	34,6	0,178	0,229	1,40	1,60	1
UL 1061/10002	16	30 x 0,250	1,310	1,280	13,7	0,178	0,229	2,22	2,38	1
UL 1061/10002	14	41 x 0,253	2,08	2,04	8,62	0,178	0,229	2,39	2,54	1

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.		
		N x Ønom.[mm]	[g/m]
UL 1061/10002	26	7 x 0,160	2,1
UL 1061/10002	24	7 x 0,196	3,0
UL 1061/10002	22	7 x 0,250	4,3
UL 1061/10002	20	10 x 0,258	6,4
UL 1061/10002	20	41 x 0,128	6,4
UL 1061/10002	16	30 x 0,250	16
UL 1061/10002	14	41 x 0,253	22

UL 1061/10002 Sn

-40°C to 105°C





DESIGN

Conductor:	CU ETP1 according to EN 13602, tinned
Insulation material:	SR-PVC
Covering:	UL 1569 acc. to UL 758

APPLICATION

Internal wiring in electric bookkeeping, accounting, time-recording machines or electronic equipment if within a chassis or protected from mechanical injury.

TECHNICAL DATA

Voltage level:	300V
Flame rate:	FT1 / VW-1

ACCORDING TO THE STANDARD

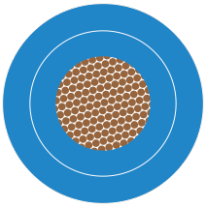
1. UL 758
2. CSA C22.2 No.210-15

Type	Conductor				Core				According to the Standard
	Geometry				Geometry				
	SAE Conductor Size	Construction	Minimum conductor Area	Resistance (20°C)	Wall thickness		Diameter		
	No.			Tinned max.	min.	Average min.	min.	max.	
		N x Ø [mm]	[mm²]	[mΩ/m]	[mm]		[mm]		
UL 1061/10002 sn	28	7 x 0,127	0,079	239,0	0,178	0,229	0,85	0,95	1, 2
UL 1061/10002 sn	26	7 x 0,155	0,126	150,0	0,178	0,229	0,95	1,05	1, 2
UL 1061/10002 sn	24	7 x 0,193	0,201	94,2	0,178	0,229	1,10	1,30	1, 2
UL 1061/10002 sn	22	7 x 0,244	0,318	59,4	0,178	0,229	1,20	1,40	1, 2
UL 1061/10002 sn	22	17 x 0,156	0,318	59,4	0,178	0,229	1,20	1,40	1, 2
UL 1061/10002 sn	20	7 x 0,310	0,509	36,7	0,178	0,229	1,40	1,60	1, 2
UL 1061/10002 sn	20	10 x 0,258	0,509	36,7	0,178	0,229	1,40	1,60	1, 2
UL 1061/10002 sn	18	16 x 0,260	0,807	23,2	0,178	0,229	1,65	1,85	1, 2
UL 1061/10002 sn	16	30 x 0,235	1,280	14,6	0,178	0,229	2,22	2,38	1, 2

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.	N x Ø [mm]	[g/m]
UL 1061/10002 sn	28	7 x 0,127	1,5
UL 1061/10002 sn	26	7 x 0,155	2,1
UL 1061/10002 sn	24	7 x 0,193	3,1
UL 1061/10002 sn	22	7 x 0,244	4,3
UL 1061/10002 sn	22	17 x 0,156	4,3
UL 1061/10002 sn	20	7 x 0,310	6,3
UL 1061/10002 sn	20	10 x 0,258	6,3
UL 1061/10002 sn	18	16 x 0,260	9,5
UL 1061/10002 sn	16	30 x 0,235	16

UL 1120

-40°C ... 105°C



SINGLECORE | UNSHIELDED | DOUBLE LAYER | T2

CONDUCTOR	INSULATION	TEMPERATURE	TEMPERATURE	FLAME RATE	VOLTAGE
CU	PVC	-40°C	105°C	VW-1	600V

DESIGN

Conductor:	CU ETP1 according to EN 13602, bare
Insulation material:	Plasticized PVC
Covering:	Plasticized PVC

TECHNICAL DATA

Voltage level:	600V
Flame rate:	VW-1

APPLICATION

Internal Wiring of Appliances or phonograph pick-up and volume control.

ACCORDING TO THE STANDARD

1. UL 758
2. CSA C22.2 No.210-15

Type	Conductor					Inner layer			Outer cover			According to the Standard
	Geometry					Geometry			Geometry			
	Conductor Size		Construction	Minimum conductor Area	Resistance (20°C)	Wall thickness		Diameter	Wall thickness		Diameter	
	SAE No.	Cross-section			Bare max.	Average min.	min.		Average min.	min.		
		[mm²]	N x Ønom.[mm]	[mm²]	[mΩ/m]	[mm]		[mm]	[mm]		[mm]	
UL 1120	20	0,50	10 x 0,258	0,509	34,6	0,76	0,686	2,50 – 2,70	0,76	0,61	4,10 – 4,30	1, 2
UL 1120	18	0,80	16 x 0,256	0,509	21,8	0,76	0,686	2,70 – 2,90	0,76	0,61	4,50 – 4,70	1, 2
UL 1120	11	4,0	56 x 0,306	4,09	4,3	0,76	0,686	4,40 – 4,70	0,76	0,61	6,20 – 6,50	1, 2

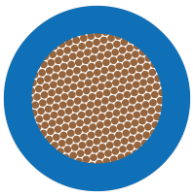
Cable type				
Type	Conductor Size		Construction	Weight approx.
	SAE No.	Cross-section		
		[mm²]	N x Ønom. [mm]	[g/m]
UL 1120	20	0,50	10 x 0,258	25
UL 1120	18	0,80	16 x 0,256	39
UL 1120	11	4,0	56 x 0,306	-

x – colour code main colour y – colour code stripe colour

Color Code							
Color	Code		Color	Code		Color	Code
White (WH)	A		Yellow (YE)	F		Violet (VT)	L
Pink (PK)	B		Light Green (LGN)	U		Dark Green (DGN)	V
Beje (BJ)	C		Orange (OR)	H		Dark Blue (DBU)	K
Grey (GY)	E		Red (RD)	I		Black (BK)	N
Light Blue (LBU)	Y		Brown (BN)	J			

UL 1283

-40°C ... 105°C



SINGLECORE | UNSHIELDED | T2

CONDUCTOR	INSULATION	TEMPERATURE	TEMPERATURE	FLAME RATE	VOLTAGE
CU	PVC	-40°C	105°C	FT1 / VW-1	600V

DESIGN

Conductor: CU ETP1 according to EN 13602, bare
Insulation material: plasticized PVC
Covering: UL 1283
acc. to UL 758

APPLICATION

Internal wiring of appliances or electronic equipment and panels.
Rated for continuous use up to 105°C.

TECHNICAL DATA

Voltage level: 600V
Temperature range: -40°C to 105°C
Flame rate: FT1 / VW-1

ACCORDING TO THE STANDARD

1. UL 758
2. CSA C22.2 No.210-15

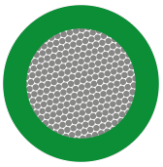
Type	Conductor				Core				According to the Standard
	Geometry				Geometry				
	SAE Conductor Size	Construction	Minimum conductor Area	Resistance (20°C)	Wall thickness		Diameter*		
	No.			Bare max.	min.	Average min.	min.	max.	
		N x Ønom. [mm]	[mm²]	[mΩ/m]	[mm]		[mm]		
UL 1283	8	133 x 0,285	8,20	2,144	1,372	1,524	6,75	7,25	1, 2
UL 1283	6	133 x 0,356	13,03	1,348	1,372	1,524	8,00	9,00	1, 2
UL 1283	6	266 x 0,256	13,03	1,348	1,372	1,524	8,00	9,00	1, 2
UL 1283	4	133 x 0,450	20,73	0,8481	1,372	1,524	9,20	10,40	1, 2
UL 1283	4	420 x 0,256	20,73	0,8481	1,372	1,524	9,20	10,40	1, 2
UL 1283	3	525 x 0,256	26,14	0,6727	1,372	1,524	10,00	11,00	1, 2
UL 1283	2	665 x 0,256	32,95	0,5335	1,372	1,524	10,50	11,70	1, 2

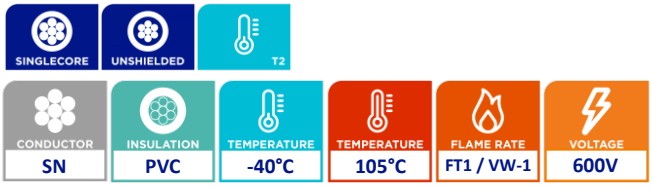
*Informative value

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.		
		N x Ønom. [mm]	[g/m]
UL 1283	8	133 x 0,285	113
UL 1283	6	133 x 0,356	180
UL 1283	6	266 x 0,256	180
UL 1283	4	133 x 0,450	260
UL 1283	4	420 x 0,256	260
UL 1283	3	525 x 0,256	315
UL 1283	2	665 x 0,256	385

UL 1283 sn

-40°C to 105°C





DESIGN

Conductor:	CU ETP1 according to EN 13602, tinned
Insulation material:	plasticized PVC
Covering:	UL 1283 acc. to UL 758

APPLICATION

Internal wiring of appliances or electronic equipment and panels.
Rated for continuous use up to 105°C.
E498376 (Noth America).
E522149 (Eastern Europe).

TECHNICAL DATA

Voltage level:	600V
Temperature range:	-40°C to 105°C
Flame rate:	FT1 / VW-1

ACCORDING TO THE STANDARD

1. UL 758
2. CSA C22.2 No.210-15

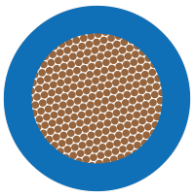
Type	Conductor				Core				
	Geometry				Geometry				According To the Standard
	SAE Conductor Size	Construction	Minimum conductor Area	Resistance (20°C)	Wall thickness		Diameter*		
	No.			Tinned max.	min.	Average min.	min.	max.	
		N x Ønom. [mm]	[mm²]	[mΩ/m]	[mm]		[mm]		
UL 1283 sn	8	133 x 0,282	8,20	2,23	1,372	1,524	6,75	7,25	1, 2
UL 1283 sn	6	133 x 0,356	13,03	1,403	1,372	1,524	8,00	9,00	1, 2
UL 1283 sn	6	266 x 0,256	13,03	1,403	1,372	1,524	8,00	9,00	1, 2
UL 1283 sn	4	133 x 0,450	20,73	0,8820	1,372	1,524	9,20	10,40	1, 2
UL 1283 sn	4	420 x 0,256	20,73	0,8820	1,372	1,524	9,20	10,40	1, 2
UL 1283 sn	4	1666 x 0,127	20,73	0,8820	1,372	1,524	9,20	10,40	1, 2
UL 1283 sn	2	665 x 0,256	32,95	0,5548	1,372	1,524	10,50	11,70	1, 2

*Informative value.

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.	N x Ønom. [mm]	[g/m]
UL 1283 sn	8	133 x 0,282	113
UL 1283 sn	6	133 x 0,356	180
UL 1283 sn	6	266 x 0,256	180
UL 1283 sn	4	133 x 0,450	260
UL 1283 sn	4	420 x 0,256	260
UL 1283 sn	4	1666 x 0,127	260
UL 1283 sn	2	665 x 0,256	398

UL 1284

-40°C ... 105°C



SINGLECORE | UNSHIELDED | T2

CONDUCTOR	INSULATION	TEMPERATURE	TEMPERATURE	FLAME RATE	VOLTAGE
CU	PVC	-40°C	105°C	FT1 / VW-1	600V

DESIGN

Conductor:	CU ETP1 according to EN 13602, bare
Insulation material:	plasticized PVC
Covering:	UL 1284 acc. to UL 758

APPLICATION

Internal wiring of appliances or electronic equipment and panels.
Rated for continuous use up to 105°C.

TECHNICAL DATA

Voltage level:	600V
Temperature range:	-40°C ... 105°C
Flame rate:	FT1 / VW-1

ACCORDING TO THE STANDARD

1. UL 758
2. CSA C22.2 No.210-15

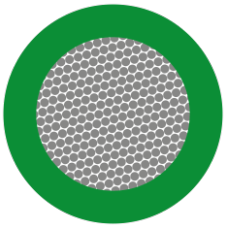
Type	Conductor				Core				
	Geometry				Geometry				According to the Standard
	SAE Conductor Size	Construction	Minimum conductor Area	Resistance (20°C)	Wall thickness		Diameter*		
	No.			Bare max.	min.	Average min.	min.	max.	
		N x Ønom. [mm]	[mm²]	[mΩ/m]	[mm]		[mm]		
UL 1284	8	133 x 0,285	8,20	2,144	1,83	2,032	7,75	8,25	1, 2
UL 1284	1	833 x 0,256	41,56	0,4230	1,83	2,032	13,00	14,20	1, 2
UL 1284	1/0	1064 x 0,256	52,42	0,3354	1,83	2,032	14,10	15,30	1, 2
UL 1284	2/0	1330 x 0,256	66,08	0,2660	1,83	2,032	15,30	16,50	1, 2
UL 1284	3/0	1672 x 0,256	83,31	0,2110	1,83	2,032	16,60	17,80	1, 2
UL 1284	4/0	2109 x 0,256	105,1	0,1673	1,83	2,032	18,20	19,40	1, 2

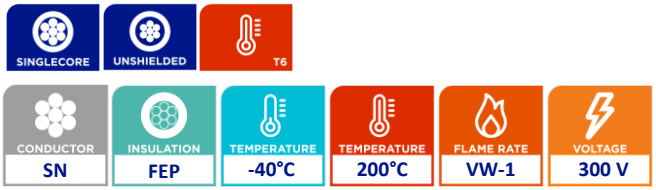
*Informative value

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.		
		N x Ønom. [mm]	[g/m]
UL 1284	8	133 x 0,285	130
UL 1284	1	833 x 0,256	512
UL 1284	1/0	1064 x 0,256	622
UL 1284	2/0	1330 x 0,256	760
UL 1284	3/0	1672 x 0,256	930
UL 1284	4/0	2109 x 0,256	1145

UL 1332 Sn

-40°C to 200°C





DESIGN

Conductor:	CU ETP1 according to EN 13602, Tinned
Insulation material:	FEP
Covering:	UL 1332 acc. to UL 758

APPLICATION

Internal wiring of appliances.

TECHNICAL DATA

Voltage level:	300V
Flame rate:	VW-1

ACCORDING TO THE STANDARD

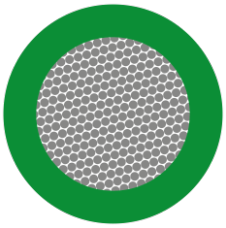
1. UL 758
2. CSA C22.2 No. 210-15

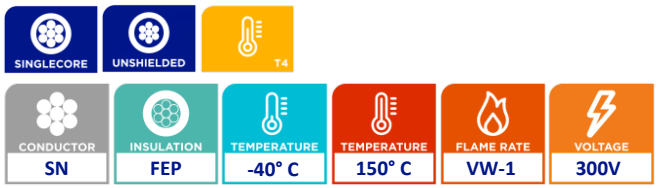
Type	Conductor					Core				
	Geometry					Geometry				According to the Standard
	SAE Conductor Size	Construction	Conductor Area		Resistance (20°C)	Wall thickness		Diameter		
	No.		min.	nom.	Tinned max.	min.	Average min.	min.	max.	
		N x Ønom.[mm]	[mm²]		[mΩ/m]	[mm]		[mm]		
UL 1332 Sn	24	7 x 0,200	0,201	0,205	94,20	0,305	0,330	1,35	1,55	1, 2
UL 1332 Sn	22	7 x 0,246	0,318	0,324	59,40	0,305	0,330	1,55	1,75	1, 2
UL 1332 Sn	20	7 x 0,308	0,509	0,519	36,7	0,305	0,330	1,72	1,85	1, 2
UL 1332 Sn	18	7 x 0,390	0,807	0,823	23,20	0,305	0,330	1,85	2,05	1, 2
UL 1332 Sn	18	19 x 0,254	0,807	0,823	23,20	0,305	0,330	1,85	2,05	1, 2
UL 1332 Sn	14	19 x 0,375	2,04	2,08	8,96	0,305	0,330	2,50	2,70	1, 2
UL 1332 Sn	12	19 x 0,470	3,240	3,310	5,64	0,305	0,330	2,95	3,15	1, 2

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.		
		N x Ønom. [mm]	[g/m]
UL 1332 Sn	24	7 x 0,200	5,0
UL 1332 Sn	22	7 x 0,246	6,9
UL 1332 Sn	20	7 x 0,308	8,9
UL 1332 Sn	18	7 x 0,390	12
UL 1332 Sn	18	19 x 0,254	12
UL 1332 Sn	14	19 x 0,375	25
UL 1332 Sn	12	19 x 0,470	37

UL 1333 Sn

-40°C ... 150°C





DESIGN

Conductor: CU ETP1 according to EN 13602, Tinned
Insulation material: FEP
Covering: UL 1333
acc. to UL 758

APPLICATION

Internal wiring of appliances.

TECHNICAL DATA

Voltage level: 300V
Flame rate: VW-1

ACCORDING TO THE STANDARD

1. UL 758
2. CSA C22.2 No. 210-15

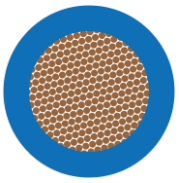
Type	Conductor					Core				
	Geometry					Geometry				According to the Standard
	SAE Conductor Size	Construction	Conductor Area		Resistance (20°C)	Wall thickness		Diameter		
	No.		min.	nom.	Tinned max.	min.	Average min.	min.	max.	
		N x Ønom. [mm]	[mm²]		[mΩ/m]	[mm]		[mm]		
UL 1333 Sn	24	19 x 0,120	0,201	0,205	94,2	0,305	0,330	1,25	1,45	1
UL 1333 Sn	22	7 x 0,250	0,318	0,324	59,4	0,305	0,330	1,40	1,60	1

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.		
		N x Ønom. [mm]	[g/m]
UL 1333 Sn	24	19 x 0,120	4,5
UL 1333 Sn	22	7 x 0,250	6

Color Code							
Color	Code		Color	Code		Color	Code
White (WH)	A		Yellow (YE)	F		Brown (BN)	J
Pink (PK)	B		Green (GN)	G		Violet (VT)	L
Grey (GY)	E		Orange (OR)	H		Blue (BU)	M
Light Blue (LBU)	Y		Red (RD)	I		Black (BK)	N

UL 1569/1007

-40°C to 105°C



SINGLECORE | UNSHIELDED | T2

CONDUCTOR	INSULATION	TEMPERATURE	TEMPERATURE	FLAME RATE	VOLTAGE
CU	PVC	-40°C	105°C	FT1 /VW-1	300 V

DESIGN

Conductor: CU ETP1 according to EN 13602, bare
Insulation material: plasticized PVC
Covering: UL 1569
acc. to UL 758

TECHNICAL DATA

Voltage level: 300 V
Flame rate: FT1 / VW-1

APPLICATION

Internal wiring of appliances or electronic equipment where not subjected to movement or mechanical damage up to 105°C.
CSA Type AWM for use on appliance wiring material and TR-64 for use on electronic wires.

ACCORDING TO THE STANDARD

1. UL 758
2. CSA C22.2 No.210-15
3. According client´s specifications

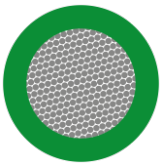
Type	Conductor							Core				According to the Standard
	Geometry							Geometry				
	SAE Conductor Size		Construction	Minimum conductor Area	Diameter nom.	Resistance (20°C)	Lay Length	Wall thickness		Diameter		
	No.	Cross-section				Bare max.	max.*	min.	Average min.	min.	max.	
		[mm²]	N x Ønom. [mm]	[mm²]	[mm]	[mΩ/m]	[mm]	[mm]		[mm]		
UL 1569/1007	28	0,08	7 x 0,122	0,079	0,37	239	16	0,33	0,38	1,18	1,28	1, 2
UL 1569/1007	26	0,13	7 x 0,160	0,126	0,47	140	16	0,33	0,38	1,25	1,37	1, 2
UL 1569/1007	24	0,22	7 x 0,194	0,201	0,56	87,6	18	0,33	0,38	1,38	1,52	1, 2
UL 1569/1007	23	0,25	8 x 0,206	0,254	0,66	69,2	18	0,33	0,38	1,40	1,60	1, 2
UL 1569/1007	22	0,35	7 x 0,244	0,318	0,76	55,4	20	0,33	0,38	1,50	1,70	1, 2
UL 1569/1007	22	0,35	17 x 0,156	0,318	0,76	55,4	20	0,33	0,38	1,50	1,70	1, 2
UL 1569/1007	22	0,35	19 x 0,148	0,318	0,76	55,4	20	0,33	0,38	1,50	1,70	1, 2
UL 1569/1007	20	0,50	7 x 0,308	0,509	0,95	34,6	32	0,33	0,38	1,70	1,90	1, 2
UL 1569/1007	20	0,50	10 x 0,258	0,509	0,95	34,6	32	0,33	0,38	1,70	1,90	1, 2
UL 1569/1007	20	0,50	26 x 0,160	0,509	0,95	34,6	32	0,33	0,38	1,70	1,90	1, 2
UL 1569/1007	19	0,75	24 x 0,190	0,641	1,05	27,4	32	0,33	0,38	1,87	1,97	1, 2
UL 1569/1007	18	0,80	7 x 0,387	0,807	1,18	21,8	51	0,33	0,38	1,93	2,08	1, 2
UL 1569/1007	18	0,80	16 x 0,256	0,807	1,15	21,8	51	0,33	0,38	1,93	2,08	1, 2
UL 1569/1007	16	1,00	26 x 0,252	1,28	1,38	13,7	51	0,33	0,38	2,31	2,38	1, 2
UL 1569/1007	16	1,00	65 x 0,160	1,28	1,40	13,7	51	0,33	0,38	2,31	2,38	1, 2
UL 1569	14	2,00	41 x 0,253	2,04	1,80	8,62	51	0,33	0,38	2,65	2,85	1, 2
UL 1569	12	3,00	65 x 0,253	3,24	2,30	5,43	51	0,33	0,38	3,20	3,30	1, 2
UL 1569	11	4,00	56 x 0,306	4,09	2,64	4,3	64	0,33	0,38	3,40	3,60	1, 2
UL 1569	10	5,00	105 x 0,251	5,16	2,95	3,409	64	0,33	0,38	3,75	4,10	1, 2
UL 1569	10	5,00	294 x 0,147	5,16	2,95	3,48	64	0,33	0,38	4,20	4,60	1, 2, 3
UL 1569	8	8,00	476 x 0,147	8,2	3,70	2,18	76	0,33	0,38	5,20	5,70	1, 2, 3

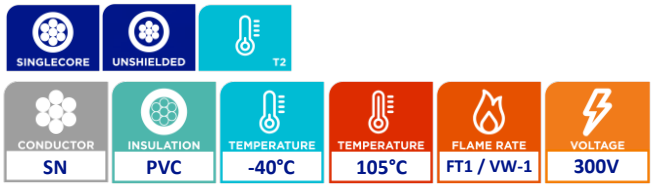
* According to UL 758

Cable type				
Type	SAE Conductor Size		Construction	Weight approx.
	No.	Cross-section		
		[mm²]	N x Ønom. [mm]	[g/m]
UL1569/1007	28	0,08	7 x 0,122	2,4
UL1569/1007	26	0,13	7 x 0,160	3
UL1569/1007	24	0,22	7 x 0,194	4
UL 1569/1007	23	0,25	8 x 0,206	4,5
UL1569/1007	22	0,35	7 x 0,244	5,2
UL1569/1007	22	0,35	17 x 0,156	5,2
UL1569/1007	22	0,35	19 x 0,148	5,2
UL1569/1007	20	0,50	7 x 0,308	7,5
UL1569/1007	20	0,50	10 x 0,258	7,5
UL1569/1007	20	0,50	26 x 0,160	7,5
UL1569/1007	19	0,75	24 x 0,190	8,7
UL1569/1007	18	0,80	7 x 0,386	11
UL1569/1007	18	0,80	16 x 0,256	11
UL1569/1007	16	1,00	26 x 0,252	17
UL1569/1007	16	1,00	65 x 0,160	17
UL1569	14	2,00	41 x 0,253	23
UL1569	12	3,00	65 x 0,253	37
UL 1569	11	4,00	56 x 0,306	40
UL 1569	10	5,00	105 x 0,251	54
UL 1569	10	5,00	294 x 0,147	58
UL 1569	8	8,00	476 x 0,147	90

UL 1569/1007 sn

-40°C to 105°C





DESIGN

Conductor:	CU ETP1 according to EN 13602, tinned
Insulation material:	plasticized PVC
Covering:	UL 1569 acc. to UL 758

APPLICATION

Internal wiring of appliances or electronic equipment where not subjected to movement or mechanical damage up to 105°C.
CSA Type AWM for use on appliance wiring material and TR-64 for use on electronic wires.

TECHNICAL DATA

Voltage level:	300V
Flame rate:	FT1 / VW-1
Shore A 15'':	89±5

ACCORDING TO THE STANDARD

1. UL 758
2. CSA C22.2 No.210-15
3. According to client's specification

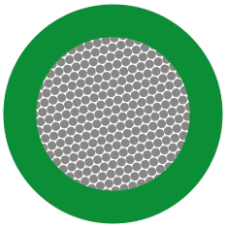
Type	Conductor						Core				
	Geometry						Geometry				According to the Standard
	SAE Conductor Size	Construction	Minimum conductor Area	Diameter nom.	Resistance (20°C)	Lay length	Wall thickness		Diameter		
	No.				Tinned max.	max.*	min.	Average min.	min.	max.	
		N x Ønom.[mm]	[mm²]	[mm]	[mΩ/m]	[mm]	[mm]		[mm]		
UL 1569/1007 sn	28	7 x 0,121	0,079	0,37	222,7	13	0,33	0,38	1,16	1,28	1, 2
UL 1569/1007 sn	26	7 x 0,160	0,126	0,47	150,0	15	0,33	0,38	1,25	1,37	1, 2
UL 1569/1007 sn	24	7 x 0,194	0,201	0,56	94,2	18	0,33	0,38	1,38	1,52	1, 2
UL 1569/1007 sn	24	11 x 0,154	0,201	0,56	94,2	18	0,33	0,38	1,38	1,52	1, 2
UL 1569/1007 sn	24	19 x 0,127	0,201	0,56	94,2	18	0,33	0,38	1,38	1,52	1, 2
UL 1569/1007 sn	23	14 x 0,154	0,254	0,67	74,5	18	0,33	0,38	1,35	1,55	1, 2, 3
UL 1569/1007 sn	22	7 x 0,244	0,318	0,76	59,4	20	0,33	0,38	1,50	1,65	1, 2
UL 1569/1007 sn	22	12 x 0,186	0,318	0,76	59,4	20	0,33	0,38	1,50	1,70	1, 2
UL 1569/1007 sn	22	17 x 0,156	0,318	0,76	59,4	20	0,33	0,38	1,50	1,70	1, 2
UL 1569/1007 sn	22	19 x 0,148	0,318	0,76	59,4	20	0,33	0,38	1,50	1,70	1, 2
UL 1569/1007 sn	20	7 x 0,308	0,509	0,95	36,7	32	0,33	0,38	1,7	1,9	1, 2
UL 1569/1007 sn	20	10 x 0,258	0,509	0,95	36,7	25	0,33	0,38	1,72	1,82	1, 2, 3
UL 1569/1007 sn	20	19 x 0,187	0,509	0,95	36,7	32	0,33	0,38	1,75	1,90	1, 2
UL 1569/1007 sn	20	41 x 0,127	0,509	0,95	36,7	32	0,33	0,38	1,76	1,82	1, 2
UL 1569/1007 sn	19	24 x 0,190	0,641	1,05	29,1	32	0,33	0,38	1,87	1,97	1, 2
UL 1569/1007 sn	18	16 x 0,256	0,807	1,15	23,2	51	0,33	0,38	1,90	2,10	1, 2
UL 1569/1007 sn	18	19 x 0,235	0,807	1,15	23,2	51	0,33	0,38	1,90	2,10	1, 2
UL 1569/1007 sn	18	24 x 0,215	0,807	1,15	23,2	51	0,33	0,38	1,90	2,10	1, 2
UL 1569/1007 sn	16	19 x 0,300	1,28	1,38	14,6	51	0,33	0,38	2,30	2,50	1, 2
UL 1569/1007 sn	16	26 x 0,252	1,28	1,38	14,6	51	0,33	0,38	2,30	2,50	1, 2
UL 1569/1007 sn	16	30 x 0,235	1,28	1,38	14,6	51	0,33	0,38	2,30	2,50	1, 2
UL 1569/1007 sn	16	36 x 0,215	1,28	1,38	14,6	51	0,33	0,38	2,30	2,50	1, 2
UL 1569 sn	14	19 x 0,375	2,04	1,80	8,96	51	0,33	0,38	2,65	2,85	1, 2
UL 1569 sn	14	41 x 0,253	2,04	1,80	8,96	51	0,33	0,38	2,65	2,85	1, 2
UL 1569 sn	14	105 x 0,160	2,04	1,80	8,96	51	0,33	0,38	2,65	2,85	1, 2
UL 1569 sn	14	123 x 0,150	2,04	1,80	8,96	51	0,33	0,38	2,65	2,85	1, 2
UL 1569 sn	12	65 x 0,253	3,24	2,30	5,64	51	0,33	0,38	3,23	3,29	1, 2
UL 1569 sn	10	105 x 0,251	5,16	2,94	3,546	64	0,33	0,38	3,75	4,10	1, 2
UL 1569 sn	8	133 x 0,282	8,2	3,80	2,23	76	0,686	0,76	5,45	5,65	1, 2

* According to UL 758.

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.	N x Ønom. [mm]	[g/m]
UL 1569/1007 sn	28	7 x 0,121	2,5
UL 1569/1007 sn	26	7 x 0,160	3
UL 1569/1007 sn	24	7 x 0,194	4
UL 1569/1007 sn	24	11 x 0,154	4
UL 1569/1007 sn	24	19 x 0,127	4
UL 1569/1007 sn	23	14 x 0,154	4
UL 1569/1007 sn	22	7 x 0,244	5,2
UL 1569/1007 sn	22	12 x 0,186	5,2
UL 1569/1007 sn	22	17 x 0,156	5,2
UL 1569/1007 sn	22	19 x 0,148	5,2
UL 1569/1007 sn	20	7 x 0,308	7,5
UL 1569/1007 sn	20	10 x 0,258	7,5
UL 1569/1007 sn	20	19 x 0,187	7,6
UL 1569/1007 sn	20	41 x 0,127	7,6
UL1569/1007 sn	19	24 x 0,190	8,7
UL 1569/1007 sn	18	16 x 0,256	11
UL 1569/1007 sn	18	19 x 0,235	11
UL 1569/1007 sn	18	24 x 0,215	11
UL 1569/1007 sn	16	19 x 0,300	17
UL 1569/1007 sn	16	26 x 0,252	17
UL 1569/1007 sn	16	30 x 0,235	17
UL 1569/1007 sn	16	36 x 0,215	17
UL 1569 sn	14	19 x 0,375	23
UL 1569 sn	14	41 x 0,253	23
UL 1569 sn	14	105 x 0,160	23
UL 1569 sn	14	123 x 0,150	23
UL 1569 sn	12	65 x 0,253	37
UL 1569 sn	10	105 x 0,251	54
UL 1569 sn	8	133 x 0,282	91

UL 1569 sn IDC

-40°C to 105°C



SINGLECORE | UNSHIELDED | T2

CONDUCTOR	INSULATION	TEMPERATURE	TEMPERATURE	FLAME RATE	VOLTAGE
SN	PVC	-40°C	105°C	FT1 / VW-1	300V

DESIGN

Conductor: CU ETP1 according to EN 13602, tinned
Insulation material: plasticized PVC
Covering: UL 1569

APPLICATION

Internal wiring of appliances or electronic equipment where not subjected to movement or mechanical damage up to 105°C.
CSA Type AWM for use on appliance wiring material and TR-64 for use on electronic wires.

TECHNICAL DATA

Voltage level: 300V
Flame rate: VW-1 acc. to UL 1581
FT1 acc. To CSA C22.2
PVC Shore A: 94 ± 3

ACCORDING TO THE STANDARD

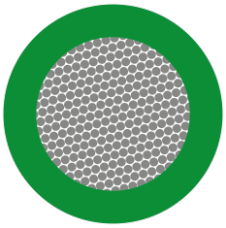
1. UL 758
2. CSA C22.2 No.210-15
3. LV21

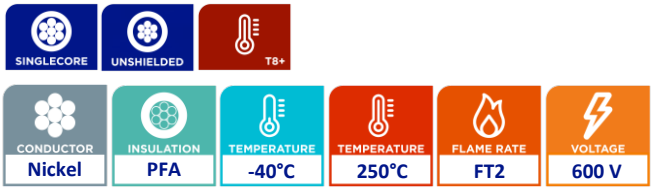
Type	Conductor						Core				According to the Standard
	Geometry						Geometry				
	SAE Conductor Size	Construction	Conductor Area		Lay Length	Resistance (20°C)	Wall thickness		Diameter		
	No.		nom.	min.		Tinned max.	min.	Average min.	min.	max.	
		N x Ønom. [mm]	[mm²]		[mm]	[mΩ/m]	[mm]		[mm]		
UL 1569 sn IDC	22	12 x 0,194	0,380	0,318	15 ± 10%	55,0	0,33	0,38	1,53	1,60	1, 2, 3
UL 1569 sn IDC	22	19 x 0,150	0,380	0,318	15 ± 10%	55,0	0,33	0,38	1,53	1,60	1, 2, 3
UL 1569 sn IDC	20	19 x 0,194	0,560	0,509	22 ± 10%	34,6	0,33	0,38	2,00	2,10	1, 2, 3
UL 1569 sn IDC	19	24 x 0,194	0,653	0,641	22 ± 10%	26,0	0,33	0,38	2,00	2,10	1, 2, 3
UL 1569 sn IDC	18	16 x 0,254	0,823	0,807	20 ± 10%	22,56	0,33	0,38	2,00	2,10	1, 2, 3
UL 1569 sn IDC	16	26 x 0,256	1,31	1,28	22 ± 10%	13,7	0,33	0,38	2,90	3,00	1, 2, 3
UL 1569 sn IDC	16	30 x 0,244	1,31	1,28	22 ± 10%	13,7	0,33	0,38	2,90	3,00	1, 2, 3
UL 1569 sn IDC	13	55 x 0,254	2,63	2,58	45 ± 10%	6,8	0,40	0,50	3,15	3,25	1, 2, 3

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.	N x Ønom. [mm]	[g/m]
UL 1569 sn IDC	22	12 x 0,194	5,4
UL 1569 sn IDC	22	19 x 0,150	5,4
UL 1569 sn IDC	20	19 x 0,194	9,0
UL 1569 sn IDC	19	24 x 0,194	9,2
UL 1569 sn IDC	18	16 x 0,254	11,0
UL 1569 sn IDC	16	26 x 0,256	19,9
UL 1569 sn IDC	16	30 x 0,244	19,9
UL 1569 sn IDC	13	55 x 0,254	30,0

UL 1727 Ni

-40°C to 250°C





DESIGN

Conductor: CU ETP1 according to EN 13602, Nickel Plate
Insulation material: PFA
Covering: UL 1727, acc. to UL 758

APPLICATION

Internal wiring of appliances.

TECHNICAL DATA

Voltage level: 600V
Flame Rate: FT2

ACCORDING TO THE STANDARD

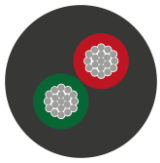
1. UL 758
2. CSA C2.2 No. 210-15

Type	Conductor			Core				
	Geometry			Geometry				According to the Standard
	SAE Conductor Size	Construction	Minimum Conductor Area	Wall thickness		Diameter		
	No.			min.	Average min.	min.	max.	
		N x Ønom. [mm]	[mm²]	[mm]		[mm]		
UL 1727 Ni	22	7 x 0,250	0,318	0,457	0,508	1,88	2,08	1, 2
UL 1727 Ni	20	7 x 0,310	0,509	0,457	0,508	2,18	2,38	1, 2
UL 1727 Ni	18	19 x 0,240	0,807	0,457	0,508	2,32	2,52	1, 2
UL 1727 Ni	16	7 x 0,490	1,28	0,457	0,508	2,72	2,92	1, 2

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.	N x Ønom. [mm]	[g/m]
UL 1727 Ni	22	7 x 0,250	-
UL 1727 Ni	20	7 x 0,310	-
UL 1727 Ni	18	19 x 0,240	-
UL 1727 Ni	16	7 x 0,490	-

UL 2464 Sn

-40°C to 80°C



MULTICORE | UNSHIELDED | WITHOUT FOIL | T1

CONDUCTOR	INSULATION	TEMPERATURE	TEMPERATURE	VOLTAGE
Sn	PVC	-40°C	80°C	300 V

DESIGN

Conductor: CU ETP1 according to EN 13602, tinned
Insulation material: PVC plasticized
Jacket Material: PVC plasticized

TECHNICAL DATA

Voltage level: 300V
Temperature range: -40°C to 80°C
Flame test: VW-1

CONSTRUCTION

PVC jacketed cable with twisted PVC single cores.

APPLICATION

Internal wiring or external interconnection of electronic equipment.

ACCORDING TO THE STANDARD

1. UL 758
2. According to client's specification

Type	Conductor / Leiter				Core		Cable			According to the Standard
	Geometry			Resistance (20°C)	Geometry		Geometry			
	Cross-section	Construction	Diameter nom.	Tinned max.	Wall thickness min.	Diameter	Lay length	Wall thickness min.	Diameter	
	AWG	N x Ønom.[mm]	[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	[mm]	
UL 2464 Sn	3 x 26	7 x 0,155	0,45	150,0	0,18	0,95 – 1,05	25 ±5	0,76	4,00 – 4,30	1
UL 2464 Sn	4 x 26	7 x 0,155	0,45	150,0	0,18	0,95 – 1,05	30 ±5	0,76	4,25 – 4,55	1
UL 2464 Sn	2 x 24	11 x 0,16	0,60	94,2	0,28	1,10 – 1,30	30 ±5	0,76	4,15 – 4,45	1
UL 2464 Sn	4 x 24	11 x 0,16	0,60	94,2	0,28	1,10 – 1,30	35 ±5	0,76	4,60 – 4,90	1, 2
UL 2464 Sn	5 x 24	11 x 0,16	0,60	94,2	0,28	1,10 – 1,30	40 ±5	0,76	4,95 – 5,25	1
Filler	-	-	-	-	-	0,80 – 0,90				
UL 2464 Sn	10 x 24	11 x 0,16	0,60	94,2	0,28	1,10 – 1,30	60 ±5	0,85	6,30 – 6,70	1
UL 2464 Sn	2 x 22	7 x 0,254	0,74	59,4	0,23	1,25 – 1,35	30 ±5	0,76	4,10 – 4,50	1, 2
UL 2464 Sn	3 x 22	17 x 0,16	0,80	59,4	0,23	1,25 – 1,35	30 ±5	0,76	4,30 – 4,70	1
UL 2464 Sn	4 x 22	7 x 0,254	0,74	59,4	0,23	1,25 – 1,35	40 ±5	0,76	4,70 – 5,10	1, 2
UL 2464 Sn	8 x 22	7 x 0,254	0,74	59,4	0,23	1,25 – 1,35	65 ±5	0,76	6,60 – 7,00	1, 2
Filler	-	-	-	-	-	2,05 – 2,15				
UL 2464 Sn	2 x 20	7 x 0,310	0,92	36,7	0,18	1,40 – 1,55	40 ±5	0,76	4,80 – 5,20	1
UL 2464 Sn	4 x 20	7 x 0,310	0,92	36,7	0,18	1,40 – 1,55	50 ±5	0,76	5,45 – 5,85	1
UL 2464 Sn	2 x 18	19 x 0,235	1,18	23,20	0,33	1,90 – 2,10	55 ±5	0,76	5,50 – 6,00	1, 2
UL 2464 Sn	2 x 18	16 x 0,26	1,18	23,20	0,33	1,90 – 2,10	63 ±5	0,76	5,54 – 6,04	1, 2
Drain wire	20	7 x 0,31	0,94	36,7	-	-				
UL 2464 Sn	4 x 18	19 x 0,235	1,18	23,20	0,33	1,90 – 2,10	65 ±5	0,76	6,40 – 7,00	1, 2
UL 2464 Sn	5 x 18	19 x 0,235	1,18	23,20	0,33	1,90 – 2,10	75 ±5	0,76	6,90 – 7,50	1, 2
Filler	-	-	-	-	-	1,30 – 1,50				
UL 2464 Sn	2 x 16	19 x 0,310	1,48	14,60	0,33	2,30 – 2,50	60 ±5	0,76	6,30 – 6,70	1, 2
UL 2464 Sn	2 x 14	41 x 0,248	1,84	8,96	0,33	2,65 – 2,85	80 ±5	0,76	7,00 – 7,60	1, 2

UL 2586 Sn

-40°C to 105°C

MULTICORE | SHIELDED | WITH FOIL | T2

CONDUCTOR	INSULATION	TEMPERATURE	TEMPERATURE	FLAME RATE	VOLTAGE
SN	PVC	-40°C	105°C	VW-1	600V

DESIGN

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

TECHNICAL DATA

Voltage level: 600V
Temperature range: -40°C to 105°C
Flame rate: VW-1

CONSTRUCTION

PVC jacketed cable with twisted PVC single cores.

SCREENING

Aluminium/PVC foil with drain wire of tinned copper for screening.

APPLICATION

External interconnection or internal wiring.

ACCORDING TO THE STANDARD

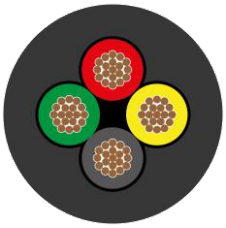
1. UL 758

Type	Conductor				Core		Cable			
	Geometry			Resistance (20°C)	Geometry		Geometry			According to the Standard
	Cross-section	Construction	Diameter nom.	Tinned max.	Wall thickness nom.	Diameter	Lay length	Wall thickness nom.	Diameter	
	SAE Conductor Size	N x Ønom.[mm]	[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	[mm]	
UL 2586 Sn	3 x 20	10 x 0,26	0,94	36,7	0,38	1,72 – 1,92	50 ±5	0,76	5,65 – 5,95	1
Drain wire	20	10 x 0,26	0,94	36,7	-	-				

Cable type			
Type	Cross-section	Color	Weight approx.
	SAE conductor size		[g/m]
UL 2586 Sn	3 x 20 + 20	According to the order	50,3

UL 2587

-40°C to 105°C



MULTICORE | UNSHIELDED | T2

CONDUCTOR	INSULATION	TEMPERATURE	TEMPERATURE	FLAME RATE	VOLTAGE
CU	PVC	-40°C	105°C	VW-1	600V

DESIGN

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

TECHNICAL DATA

Voltage level: 600V
Temperature range: -40°C to 105°C
Flame rate: VW-1

CONSTRUCTION

PVC jacketed cable with twisted PVC single cores.

APPLICATION

External interconnection or internal wiring.

ACCORDING TO THE STANDARD

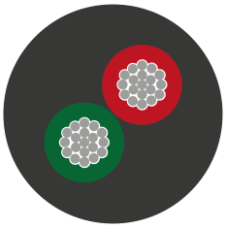
1. UL 758
2. According to client's specification

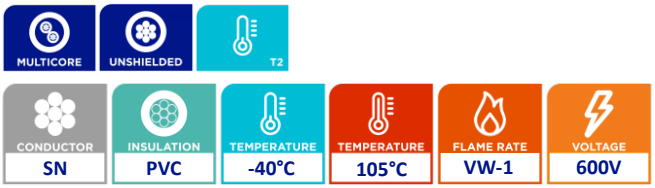
Type	Conductor				Core		Cable			According to the Standard
	Geometry			Resistance (20°C)	Geometry		Geometry			
	Cross-section	Construction	Diameter nom.	Bare max.	Wall thickness min.	Diameter	Lay length	Wall thickness min.	Diameter	
	SAE Conductor Size	N x Ømax.[mm]	[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	[mm]	
UL 2587	4 x 18	16 x 0,26	1,14	21,8	0,38	1,93 – 2,08	70 ± 5	0,76	6,10 – 6,60	1
UL 2587	4 x 20	10 x 0,26	0,95	34,6	0,51	2,00 – 2,20	70 ± 5	0,76	6,60 – 7,00	1, 2

Cable type		
Type	Cross-section	Weight approx.
	SAE conductor size	[g/m]
UL 2587	4 x 18	72
UL 2587	4 x 20	70

UL 2587 Sn

-40°C to 105°C





DESIGN

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

TECHNICAL DATA

Voltage level: 600V
Temperature range: -40°C to 105°C
Flame rate: VW-1

CONSTRUCTION

PVC jacketed cable with twisted PVC single cores.

APPLICATION

External interconnection or internal wiring.

ACCORDING TO THE STANDARD

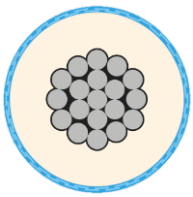
1. UL 758

Type	Conductor				Core			Cable			
	Geometry			Resistance (20°C)	Geometry			Geometry			According to the Standard
	Cross-section	Construction	Diameter nom.	Tinned max.	Wall thickness min.	Diameter	Lay length	Lay length	Wall thickness min.	Diameter	
	SAE conductor size	N x Ømax.[mm]	[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
UL 2587 Sn	2 x 18	16 x 0,26	1,14	23,2	0,38	1,93 – 2,08	-	55 ± 5	0,76	6,50 – 6,70	1
UL 2587 Sn	2 x 18	19 x 0,25	1,14	23,2	0,38	1,93 – 2,08	60 ± 5	90 ± 5	1,01	8,25 – 8,75	1
	2 x 18	19 x 0,25	1,14	23,2	0,38	1,93 – 2,08	-				
Filler	-	-	-	-	-	-	-				

Cable type		
Type	Cross-section	Weight approx.
	SAE conductor size	[g/m]
UL 2587 Sn	2 x 18	62
UL 2587 Sn	1 x (2 x 18) + 2 x 18 + *Filler*	93

UL 3071 Sn

-40°C to 200°C



SINGLECORE | UNSHIELDED | T6

CONDUCTOR	INSULATION	TEMPERATURE	TEMPERATURE	FLAME RATE	VOLTAGE
CU	SiR	-40°C	200°C	FT-1	600 V

DESIGN

Conductor: CU ETP1 according to EN13602, tinned
Insulation material: SIR with coverage in fiberglass
Covering: UL 3071
acc. to UL 758

TECHNICAL DATA

Voltage level: 600 V ac
Flame rate: FT1 Horizontal Flame

COVERAGE

With fiberglass braid.

APPLICATION

Internal Wiring of Appliances.

ACCORDING TO THE STANDARD

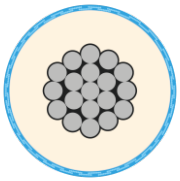
1. UL 758

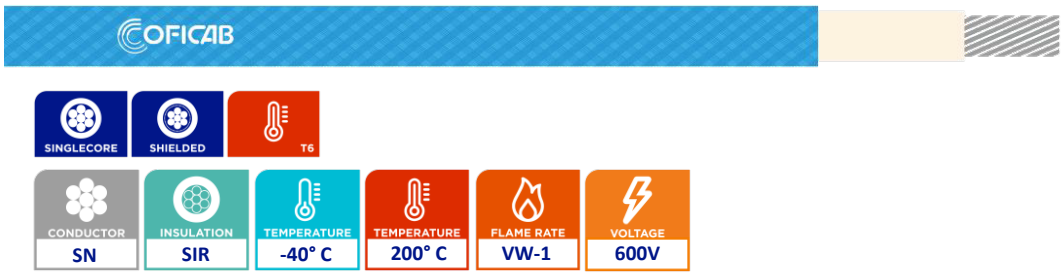
Type	Conductor						Core			Screen	According to the Standard
	Geometry					Resistance (20°C)	Geometry				
	Cross-section		Construction	Minimum conductor Area.	Diameter nom.	Bare max.	Wall thickness		Diameter		
							Min.	Average			
	[mm²]	AWG	N x ØNom. [mm]	[mm²]	[mm]	[mΩ/m]	[mm]	[mm]	[mm]		
UL 3071 Sn	0,80	18	7 x 0,390	0,807	1,18	23,2	0,686	0,76	2,72 - 3,15	Fiberglass	1
UL 3071 Sn	1,00	16	7 x 0,490	1,28	1,38	14,6	0,686	0,76	3,05 - 3,20	Fiberglass	1
UL 3071 Sn	2,00	14	19 x 0,380	2,04	1,87	8,96	0,686	0,76	3,40 - 3,80	Fiberglass	1

Cable type			
Type	Cross-section SAE	Construction	Weight Approx.
	AWG	N x ØNom. [mm]	[g/m]
UL 3071 Sn	18	7 x 0,390	17
UL 3071 Sn	16	7 x 0,490	23
UL 3071 Sn	14	19 x 0,380	30

UL 3172 Sn VW-1

-40°C … 200°C





DESIGN

Conductor: CU ETP1 according to EN13602, tinned
Insulation material: SIR with coverage in fiberglass
Covering: UL 3172
acc. to UL 758

APPLICATION

Internal Wiring of Appliances.

TECHNICAL DATA

Voltage level: 600 V ac
Flame rate: VW-1

ACCORDING TO THE STANDARD

1. UL 758

CONSTRUCTION

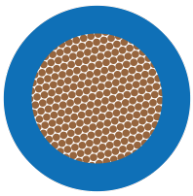
With fiberglass braid.

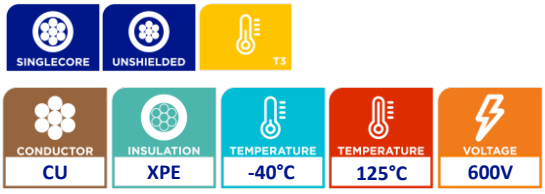
Type	Conductor						Core			Screen	According to the Standard
	Geometry					Resistance (20°C)	Geometry				
	Cross-section		Construction	Minimum conductor Area.	Diameter nom.	Tinned max.	Wall thickness		Diameter		
							Min.	Average			
	[mm²]	AWG	N x Ønom. [mm]	[mm²]	[mm]	[mΩ/m]	[mm]	[mm]	[mm]		
UL 3172 Sn VW-1	0,50	20	7 x 0,308	0,509	0,95	36,7	0,686	0,76	2,65 – 2,80	Fiberglass	1
UL 3172 Sn VW-1	0,50	20	10 x 0,258	0,509	0,95	36,7	0,686	0,76	2,65 – 2,80	Fiberglass	1
UL 3172 Sn VW-1	0,80	18	7 x 0,390	0,807	1,18	23,2	0,686	0,76	2,72 - 3,15	Fiberglass	1

Cable type			
Type	Cross-section SAE	Construction	Weight Approx.
	AWG	N x ØNom. [mm]	[g/m]
UL 3172 Sn VW-1	20	7 x 0,308	12
UL 3172 Sn VW-1	20	10 x 0,258	12
UL 3172 Sn VW-1	18	7 x 0,390	17

UL 3173

-40°C ... 125°C





DESIGN

Conductor:	CU ETP1 according to EN 13602, bare
Insulation material:	XPE E-beam cross-linked
Covering:	UL 3173 acc. to UL 758

APPLICATION

Internal wiring of appliances up to 125°C dry.
UL File No. E498376.

TECHNICAL DATA

Voltage level: 600V

ACCORDING TO THE STANDARD

1. UL 758
2. CSA C22.2 No.210-15

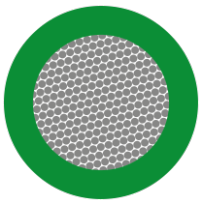
Type	Conductor							Core				
	Geometry							Geometry				According to the Standard
	Conductor Size		Construction	Minimum conductor Area	Diameter nom.	Resistance (20°C)	Lay length	Wall thickness		Diameter		
	SAE No.	Cross-section				Bare max.	max.*	min.	Average min.	min.	max.	
		[mm²]	N x Ønom. [mm]	[mm²]	[mm]	[mΩ/m]	[mm]	[mm]		[mm]		
UL 3173	22	0,35	7 x 0,244	0,318	0,76	55,4	20	0,686	0,76	2,24	2,38	1, 2
UL 3173	20	0,50	10 x 0,258	0,509	0,95	34,6	32	0,686	0,76	2,49	2,70	1, 2
UL 3173	18	0,80	16 x 0,256	0,807	1,15	21,8	51	0,686	0,76	2,70	2,85	1, 2
UL 3173	16	1,00	26 x 0,252	1,28	1,38	13,7	51	0,686	0,76	3,07	3,35	1, 2
UL 3173	14	2,00	19 x 0,372	2,04	1,85	8,62	51	0,686	0,76	3,38	3,63	1, 2
UL 3173	14	2,00	41 x 0,253	2,04	1,80	8,62	51	0,686	0,76	3,40	3,60	1, 2
UL 3173	12	3,00	65 x 0,253	3,24	2,36	5,64	51	0,686	0,76	3,86	4,14	1, 2
UL 3173	11	4,00	56 x 0,306	4,09	2,64	4,3	64	0,686	0,76	4,40	4,60	1, 2
UL 3173	10	5,00	105 x 0,251	5,16	2,95	3,409	64	0,686	0,76	4,55	4,75	1, 2

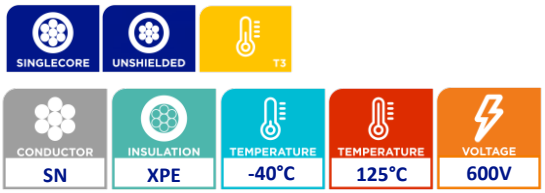
* According to UL 758

Cable type				
Type	SAE Conductor Size		Construction	Weight approx.
	No.	Cross- section		
		[mm²]	N x Ønom. [mm]	[g/m]
UL 3173	22	0,35	7 x 0,244	8,7
UL 3173	20	0,50	10 x 0,258	11
UL 3173	18	0,80	16 x 0,256	15
UL 3173	16	1,00	26 x 0,252	21
UL 3173	14	2,00	19 x 0,372	29
UL 3173	14	2,00	41 x 0,253	29
UL 3173	12	3,00	65 x 0,253	41
UL 3173	11	4,00	56 x 0,306	43
UL 3173	10	5,00	105 x 0,251	60

UL 3173 sn

-40°C ... 125°C





DESIGN

Conductor:	CU ETP1 according to EN 13602, tinned
Insulation material:	XPE E-beam cross-linked
Covering:	UL 3173 acc. to UL 758

APPLICATION

Internal wiring of appliances up to 125°C dry.
UL File No. E498376.

TECHNICAL DATA

Voltage level:	600V

ACCORDING TO THE STANDARD

1. UL 758
2. CSA C22.2 No.210-15

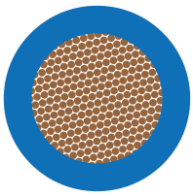
Type	Conductor						Core				
	Geometry						Geometry				According to the Standard
	SAE Conductor Size	Construction	Minimum conductor Area	Diameter nom.	Resistance (20°C)	Lay length	Wall thickness		Diameter		
	No.				Tinned max.	Max.*	min.	Average min.	min.	max.	
		N x Ønom.[mm]	[mm²]	[mm]	[mΩ/m]	[mm]	[mm]		[mm]		
UL 3173 sn	22	7 x 0,244	0,318	0,76	59,4	20	0,686	0,76	2,29	2,43	1, 2
UL 3173 sn	20	10 x 0,258	0,509	0,95	36,7	32	0,686	0,76	2,51	2,79	1, 2
UL 3173 sn	18	16 x 0,256	0,807	1,15	23,2	51	0,686	0,76	2,70	2,90	1, 2
UL 3173 sn	16	26 x 0,252	1,28	1,38	14,6	51	0,686	0,76	3,00	3,30	1, 2
UL 3173 sn	14	19 x 0,372	2,04	1,85	8,96	51	0,686	0,76	3,43	3,70	1, 2
UL 3173 sn	14	41 x 0,253	2,04	1,80	8,96	51	0,686	0,76	3,40	3,60	1, 2
UL 3173 sn	14	50 x 0,229	2,04	1,80	8,96	51	0,686	0,76	3,40	3,60	1, 2
UL 3173 sn	12	65 x 0,253	3,24	2,30	5,64	51	0,686	0,76	3,86	4,14	1, 2
UL 3173 sn	10	105 x 0,251	5,16	2,94	3,546	64	0,686	0,76	4,55	4,75	1, 2
UL 3173 sn	9	133 x 0,255	6,50	3,40	2,813	64	0,686	0,76	5,08	5,28	1, 2

* According to UL 758

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.		
		N x Ønom. [mm]	[g/m]
UL 3173 sn	22	7 x 0,244	9
UL 3173 sn	20	10 x 0,258	11
UL 3173 sn	18	16 x 0,256	14,5
UL 3173 sn	16	26 x 0,252	20,5
UL 3173 sn	14	19 x 0,372	29
UL 3173 sn	14	41 x 0,253	29
UL 3173 sn	14	50 x 0,229	29
UL 3173 sn	12	65 x 0,253	41
UL 3173 sn	10	105 x 0,251	60
UL 3173 sn	9	133 x 0,255	76

UL 3173 VW-1

-40°C ... 125°C



SINGLECORE | UNSHIELDED | T3

CONDUCTOR	INSULATION	TEMPERATURE	TEMPERATURE	FLAME RATE	VOLTAGE
CU	XPE	-40°C	125°C	VW-1	600V

DESIGN

Conductor:	CU ETP1 according to EN 13602, bare
Insulation material:	XPE E-beam cross-linked
Covering:	UL 3173 acc. to UL 758

APPLICATION

Internal wiring of appliances up to 125°C dry.
UL File No. E498376.

TECHNICAL DATA

Voltage level:	600V
Flame rate:	VW-1

ACCORDING TO THE STANDARD

1. UL 758
2. CSA C22.2 No.210-15

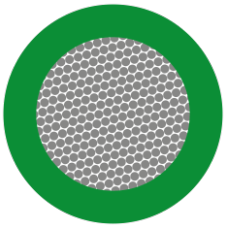
Type	Conductor						Core				According to the Standard
	Geometry						Geometry				
	SAE Conductor Size	Construction	Minimum conductor Area	Diameter nom.	Resistance (20°C)	Lay length	Wall thickness		Diameter		
	No.				Bare max.	Max.*	min.	Average min.	min.	max.	
		N x Ønom. [mm]	[mm²]	[mm]	[mΩ/m]	[mm]	[mm]		[mm]		
UL 3173 VW-1	22	7 x 0,244	0,318	0,76	55,4	20	0,686	0,76	2,27	2,54	1, 2
UL 3173 VW-1	20	10 x 0,258	0,509	0,95	34,6	32	0,686	0,76	2,51	2,79	1, 2
UL 3173 VW-1	18	16 x 0,256	0,807	1,15	21,8	51	0,686	0,76	2,74	2,95	1, 2
UL 3173 VW-1	16	26 x 0,252	1,28	1,38	13,7	51	0,686	0,76	3,07	3,35	1, 2
UL 3173 VW-1	14	19 x 0,372	2,04	1,85	8,62	51	0,686	0,76	3,43	3,70	1, 2
UL 3173 VW-1	14	41 x 0,253	2,04	1,80	8,62	51	0,686	0,76	3,43	3,70	1, 2
UL 3173 VW-1	12	19 x 0,468	3,24	2,30	5,43	51	0,686	0,76	3,81	4,06	1, 2
UL 3173 VW-1	12	65 x 0,253	3,24	2,30	5,43	51	0,686	0,76	3,81	4,06	1, 2
UL 3173 VW-1	10	105 x 0,251	5,16	2,95	3,409	64	0,686	0,76	4,55	4,75	1, 2
UL 3173 VW-1	9	133 x 0,255	6,50	3,40	2,813	64	0,686	0,76	5,08	5,28	1, 2

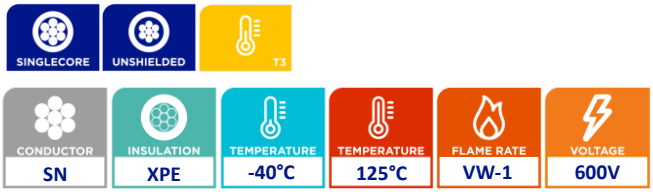
* According to UL 758

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.	N x Ønom. [mm]	[g/m]
UL 3173 VW-1	22	7 x 0,244	9
UL 3173 VW-1	20	10 x 0,258	11
UL 3173 VW-1	18	16 x 0,256	14,5
UL 3173 VW-1	16	26 x 0,252	20,5
UL 3173 VW-1	14	19 x 0,372	29
UL 3173 VW-1	14	41 x 0,253	29
UL 3173 VW-1	12	19 x 0,468	41
UL 3173 VW-1	12	65 x 0,253	41
UL 3173 VW-1	10	105 x 0,251	60
UL 3173 VW-1	9	133 x 0,255	76

UL 3173 sn VW-1

-40°C ... 125°C





DESIGN

Conductor:	CU ETP1 according to EN 13602, tinned
Insulation material:	XPE E-beam cross-linked
Covering:	UL 3173 acc. to UL 758

APPLICATION

Internal wiring of appliances up to 125°C dry.
UL File No. E498376.

TECHNICAL DATA

Voltage level:	600V
Flame rate:	VW-1

ACCORDING TO THE STANDARD

1. UL 758
2. CSA C22.2 No.210-15

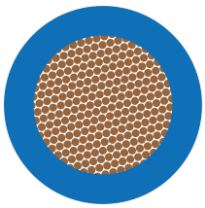
Type	Conductor						Core				
	Geometry						Geometry				According to the Standard
	SAE Conductor Size	Construction	Minimum conductor Area	Diameter nom.	Resistance (20°C)	Lay length	Wall thickness		Diameter		
	No.				Tinned max.	Max.*	min.	Average min.	min.	max.	
		N x Ønom.[mm]	[mm²]	[mm]	[mΩ/m]	[mm]	[mm]		[mm]		
UL 3173 sn VW-1	22	7 x 0,244	0,318	0,76	59,4	20	0,686	0,76	2,27	2,54	1, 2
UL 3173 sn VW-1	20	10 x 0,258	0,509	0,95	36,7	32	0,686	0,76	2,51	2,79	1, 2
UL 3173 sn VW-1	18	16 x 0,256	0,807	1,15	23,2	51	0,686	0,76	2,74	2,95	1, 2
UL 3173 sn VW-1	16	26 x 0,252	1,28	1,38	14,6	51	0,686	0,76	3,07	3,35	1, 2
UL 3173 sn VW-1	14	19 x 0,372	2,04	1,85	8,96	51	0,686	0,76	3,43	3,70	1, 2
UL 3173 sn VW-1	14	41 x 0,253	2,04	1,80	8,96	51	0,686	0,76	3,43	3,70	1, 2
UL 3173 sn VW-1	12	65 x 0,253	3,24	2,30	5,64	51	0,686	0,76	3,81	4,06	1, 2
UL 3173 sn VW-1	10	105 x 0,251	5,16	2,95	3,546	64	0,686	0,76	4,55	4,75	1, 2
UL 3173 sn VW-1	9	133 x 0,255	6,50	3,40	2,813	64	0,686	0,76	5,08	5,28	1, 2

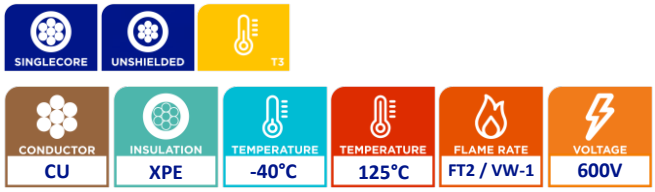
* According to UL 758

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.	N x Ønom. [mm]	[g/m]
UL 3173 sn VW-1	22	7 x 0,244	9
UL 3173 sn VW-1	20	10 x 0,258	11
UL 3173 sn VW-1	18	16 x 0,256	14,5
UL 3173 sn VW-1	16	26 x 0,252	20,5
UL 3173 sn VW-1	14	19 x 0,372	29
UL 3173 sn VW-1	14	41 x 0,253	29
UL 3173 sn VW-1	12	65 x 0,253	41
UL 3173 sn VW-1	10	105 x 0,251	60
UL 3173 sn VW-1	9	133 x 0,255	76

UL 3195

-40°C to 125°C





DESIGN

Conductor:	CU ETP1 according to EN 13602, bare
Insulation material:	XPE E-beam cross-linked
Covering:	UL 3195 acc. to UL 758

APPLICATION

Internal wiring of appliances up to 125°C dry.
UL File No. E498376.

TECHNICAL DATA

Voltage level:	600V
Flame rate:	FT2 / VW-1

ACCORDING TO THE STANDARD

1. UL 758
2. CSA C22.2 No.210-15

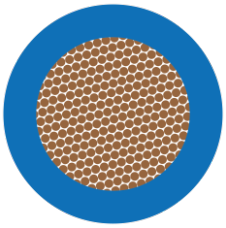
Type	Conductor						Core				
	Geometry						Geometry				According to the Standard
	SAE Conductor Size	Construction	Minimum conductor Area	Diameter nom.	Resistance (20°C)	Lay length	Wall thickness		Diameter		
	No.				Bare max.	max.*	min.	Average min.	min.	max.	
		N x Ønom.[mm]	[mm²]	[mm]	[mΩ/m]	[mm]	[mm]		[mm]		
UL 3195	8	133 x 0,285	8,20	3,76	2,144	76	1,02	1,14	6,30	6,70	1, 2

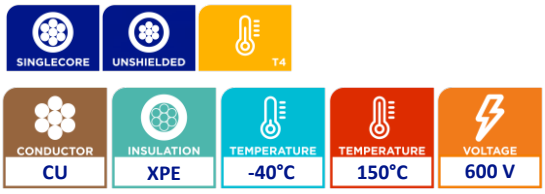
* According to UL 758.

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.	N x Ønom. [mm]	[g/m]
UL 3195	8	133 x 0,285	108

UL 3321

-40°C ... 150°C





DESIGN

Conductor:	CU ETP1 according to EN 13602, bare
Insulation material:	XPE E-beam cross-linked
Covering:	UL 3321 acc. to UL 758

APPLICATION

Internal wiring of appliances up to 150°C dry.
UL File No. E498376.

TECHNICAL DATA

Voltage level: 600V

ACCORDING TO THE STANDARD

1. UL 758
2. CSA C22.2 No.210-15

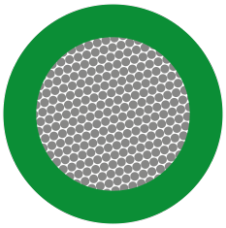
Type	Conductor						Core				
	Geometry						Geometry				According to the Standard
	SAE Conductor Size	Construction	Minimum conductor Area	Diameter nom.	Resistance (20°C)	Lay length	Wall thickness		Diameter		
	No.				Bare max.	Max.*	min.	Average min.	min.	max.	
		N x Ønom.[mm]	[mm²]	[mm]	[mΩ/m]	[mm]	[mm]		[mm]		
UL 3321	20	10 x 0,258	0,509	0,95	34,6	32	0,686	0,76	2,44	2,64	1, 2
UL 3321	18	16 x 0,256	0,807	1,15	21,8	51	0,686	0,76	2,64	2,90	1, 2
UL 3321	16	26 x 0,252	1,28	1,38	13,7	51	0,686	0,76	2,90	3,40	1, 2
UL 3321	14	41 x 0,253	2,04	1,80	8,62	51	0,686	0,76	3,50	3,70	1, 2
UL 3321	12	65 x 0,253	3,24	2,30	5,43	51	0,686	0,76	3,88	4,06	1, 2
UL 3321	10	105 x 0,251	5,16	2,95	3,409	64	0,686	0,76	4,57	4,72	1, 2
UL 3321	6	133 x 0,355	13,03	4,72	1,348	89	1,016	1,145	7,05	7,25	1, 2
UL 3321	2	665 x 0,252	32,95	7,52	0,529	120	1,371	1,524	10,75	11,05	1, 2
UL 3321	1/0	1064 x 0,256	52,42	9,65	0,3354	154	1,828	2,032	13,80	14,20	1, 2
UL 3321	2/0	1330 x 0,256	66,08	10,78	0,266	170	1,828	2,032	15,00	15,40	1, 2

* According to UL 758.

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.	N x Ønom. [mm]	[g/m]
UL 3321	20	10 x 0,258	11
UL 3321	18	16 x 0,256	15
UL 3321	16	26 x 0,252	21
UL 3321	14	41 x 0,253	30
UL 3321	12	65 x 0,253	42
UL 3321	10	105 x 0,251	62
UL 3321	6	133 x 0,355	153
UL 3321	2	665 x 0,252	376
UL 3321	1/0	1064 x 0,256	607
UL 3321	2/0	1330 x 0,256	746

UL 3321 sn

-40°C to 150°C



SINGLECORE | UNSHIELDED | T3

CONDUCTOR	INSULATION	TEMPERATURE	TEMPERATURE	VOLTAGE
SN	XPE	-40°C	125°C	600V

DESIGN

Conductor: CU ETP1 according to EN 13602, tinned
Insulation material: XPE E-beam cross-linked
Covering: UL 3321
acc. to UL 758

APPLICATION

Internal wiring of appliances up to 150°C dry.
UL File No. E498376.

TECHNICAL DATA

Voltage level: 600V

ACCORDING TO THE STANDARD

1. UL 758
2. CSA C22.2 No.210-15

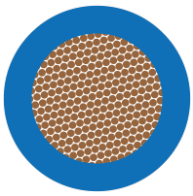
Type	Conductor						Core				
	Geometry						Geometry				According to the Standard
	SAE Conductor Size	Construction	Minimum conductor Area	Diameter nom.	Resistance (20°C)	Lay length	Wall thickness		Diameter		
	No.				Tinned max.	max.*	min.	Average min.	min.	max.	
		N x Ønom. [mm]	[mm²]	[mm]	[mΩ/m]	[mm]	[mm]		[mm]		
UL 3321 sn	22	7 x 0,244	0,318	0,76	59,4	20	0,686	0,76	2,29	2,54	1, 2
UL 3321 sn	20	10 x 0,258	0,509	0,95	36,7	32	0,686	0,76	2,44	2,64	1, 2
UL 3321 sn	18	7 x 0,387	0,807	1,15	23,2	51	0,686	0,76	2,64	2,90	1, 2
UL 3321 sn	18	16 x 0,256	0,807	1,15	23,2	51	0,686	0,76	2,64	2,90	1, 2
UL 3321 sn	16	7 x 0,486	1,28	1,38	14,6	51	0,686	0,76	2,90	3,40	1, 2
UL 3321 sn	16	26 x 0,252	1,28	1,38	14,6	51	0,686	0,76	2,90	3,40	1, 2
UL 3321 sn	14	19 x 0,372	2,04	1,85	8,96	51	0,686	0,76	3,50	3,70	1, 2
UL 3321 sn	14	41 x 0,253	2,04	1,80	8,96	51	0,686	0,76	3,50	3,70	1, 2
UL 3321 sn	12	19 x 0,468	3,24	2,30	5,64	51	0,686	0,76	3,88	4,06	1, 2
UL 3321 sn	12	65 x 0,253	3,24	2,30	5,64	51	0,686	0,76	3,88	4,06	1, 2
UL 3321 sn	10	105 x 0,251	5,16	2,94	3,546	64	0,686	0,76	4,57	4,72	1, 2
UL 3321 sn	8	133 x 0,282	8,2	3,80	2,23	76	1,016	1,143	6,45	6,80	1, 2
UL 3321 sn	6	133 x 0,355	13,03	4,75	1,403	89	1,016	1,143	7,40	7,80	1, 2

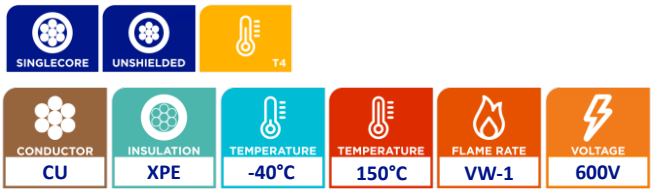
* According to UL 758

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.	N x Ønom. [mm]	[g/m]
UL 3321 sn	22	7 x 0,244	9
UL 3321 sn	20	10 x 0,258	11
UL 3321 sn	18	7 x 0,387	14,5
UL 3321 sn	18	16 x 0,256	14,5
UL 3321 sn	16	7 x 0,486	20,5
UL 3321 sn	16	26 x 0,252	20,5
UL 3321 sn	14	19 x 0,372	29
UL 3321 sn	14	41 x 0,253	29
UL 3321 sn	12	19 x 0,468	41
UL 3321 sn	12	65 x 0,253	41
UL 3321 sn	10	105 x 0,251	61,5
UL 3321 sn	8	133 x 0,282	81,5
UL 3321 sn	6	133 x 0,355	87

UL 3321 VW-1

-40°C to 150°C





DESIGN

Conductor:	CU ETP1 according to EN 13602, bare
Insulation material:	XPE E-beam cross-linked
Covering:	UL 3321 acc. to UL 758

APPLICATION

Internal wiring of appliances up to 150°C dry.
UL File No. E498376.

TECHNICAL DATA

Voltage level:	600V
Flame rate:	VW-1

ACCORDING TO THE STANDARD

1. UL 758
2. CSA C22.2 No.210-15

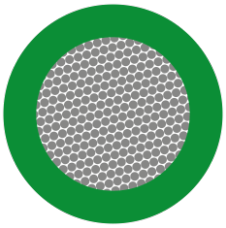
Type	Conductor						Core				
	Geometry						Geometry				According to the Standard
	SAE Conductor Size	Construction	Minimum conductor Area	Diameter nom.	Resistance (20°C)	Lay length	Wall thickness		Diameter		
	No.				Bare max.	max.*	min.	Average min.	min.	max.	
		N x Ønom.[mm]	[mm²]	[mm]	[mΩ/m]	[mm]	[mm]		[mm]		
UL 3321 VW-1	22	7 x 0,250	0,318	0,76	55,4	20	0,686	0,76	2,27	2,54	1, 2
UL 3321 VW-1	20	10 x 0,258	0,509	0,95	34,6	32	0,686	0,76	2,51	2,76	1, 2
UL 3321 VW-1	18	16 x 0,256	0,807	1,15	21,8	51	0,686	0,76	2,74	3,00	1, 2
UL 3321 VW-1	16	26 x 0,252	1,28	1,38	13,7	51	0,686	0,76	3,07	3,35	1, 2
UL 3321 VW-1	14	19 x 0,372	2,04	1,80	8,62	51	0,686	0,76	3,50	3,78	1, 2
UL 3321 VW-1	14	41 x 0,253	2,04	1,80	8,62	51	0,686	0,76	3,50	3,78	1, 2
UL 3321 VW-1	12	19 x 0,468	3,24	2,30	5,43	51	0,686	0,76	3,81	4,06	1, 2
UL 3321 VW-1	12	65 x 0,253	3,24	2,30	5,43	51	0,686	0,76	3,81	4,06	1, 2
UL 3321 VW-1	10	105 x 0,251	5,16	2,95	3,409	64	0,686	0,76	4,57	4,85	1, 2

* According to UL 758

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.		
		N x Ønom. [mm]	[g/m]
UL 3321 VW-1	22	7 x 0,250	9
UL 3321 VW-1	20	10 x 0,258	12
UL 3321 VW-1	18	16 x 0,256	15
UL 3321 VW-1	16	26 x 0,252	21
UL 3321 VW-1	14	19 x 0,372	30
UL 3321 VW-1	14	41 x 0,253	30
UL 3321 VW-1	12	19 x 0,468	42
UL 3321 VW-1	12	65 x 0,253	42
UL 3321 VW-1	10	105 x 0,251	63

UL 3321 sn VW-1

-40°C to 150°C



SINGLECORE | UNSHIELDED | T4

CONDUCTOR	INSULATION	TEMPERATURE	TEMPERATURE	FLAME RATE	VOLTAGE
SN	XPE	-40°C	150°C	VW-1	600V

DESIGN

Conductor: CU ETP1 according to EN 13602, tinned
Insulation material: XPE E-beam cross-linked
Covering: UL 3321
acc. to UL 758

APPLICATION

Internal wiring of appliances up to 150°C dry.
UL File No. E498376.

TECHNICAL DATA

Voltage level: 600V
Flame rate: VW-1

ACCORDING TO THE STANDARD

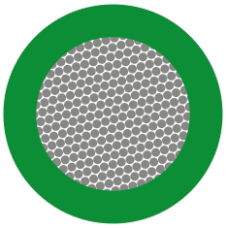
1. UL 758
2. CSA C22.2 No.210-15

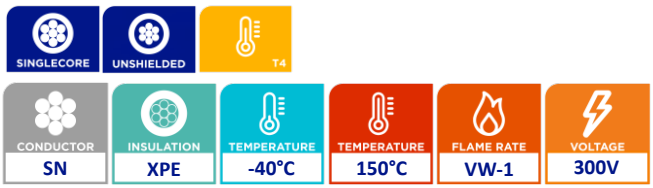
Type	Conductor						Core				
	Geometry						Geometry				According to the Standard
	SAE Conductor Size	Construction	Minimum conductor Area	Diameter nom.	Resistance (20°C)	Lay length	Wall thickness		Diameter		
	No.				Tinned max.	max.*	min.	Average min.	min.	max.	
		N x Ønom. [mm]	[mm²]	[mm]	[mΩ/m]	[mm]	[mm]		[mm]		
UL 3321 sn VW-1	22	7 x 0,244	0,318	0,76	59,4	20	0,686	0,76	2,29	2,54	1, 2
UL 3321 sn VW-1	20	10 x 0,258	0,509	0,95	36,7	32	0,686	0,76	2,51	2,76	1, 2
UL 3321 sn VW-1	18	7 x 0,387	0,807	1,18	23,2	51	0,686	0,76	2,74	3,00	1, 2
UL 3321 sn VW-1	18	16 x 0,256	0,807	1,15	23,2	51	0,686	0,76	2,74	3,00	1, 2
UL 3321 sn VW-1	16	7 x 0,486	1,28	1,40	14,6	51	0,686	0,76	3,07	3,35	1, 2
UL 3321 sn VW-1	16	26 x 0,252	1,28	1,38	14,6	51	0,686	0,76	3,07	3,35	1, 2
UL 3321 sn VW-1	14	19 x 0,372	2,04	1,85	8,96	51	0,686	0,76	3,50	3,78	1, 2
UL 3321 sn VW-1	14	41 x 0,253	2,04	1,80	8,96	51	0,686	0,76	3,50	3,78	1, 2
UL 3321 sn VW-1	12	19 x 0,468	3,24	2,30	5,64	51	0,686	0,76	3,81	4,06	1, 2
UL 3321 sn VW-1	12	65 x 0,253	3,24	2,30	5,64	51	0,686	0,76	3,81	4,06	1, 2
UL 3321 sn VW-1	10	105 x 0,251	5,16	2,94	3,546	64	0,686	0,76	4,57	4,85	1, 2
UL 3321 sn VW-1	8	133 x 0,282	8,2	3,80	2,23	76	1,016	1,143	6,12	6,32	1, 2
UL 3321 sn VW-1	4	133 x 0,455	20,73	5,96	0,849	92	1,016	1,143	8,75	9,00	1, 2
UL 3321 sn VW-1	2	259 x 0,410	32,95	7,50	0,5335	120	1,371	1,524	11,25	11,50	1, 2
UL 3321 sn VW-1	1	259 x 0,460	41,56	8,45	0,423	130	1,828	2.032	13,40	13,70	1, 2
UL 3321 sn VW-1	1/0	259 x 0,520	52,42	9,50	0,3354	150	1,828	2.032	14,45	14,80	1, 2
UL 3321 sn VW-1	2/0	1330 x 0,260	66,08	10,65	0,266	160	1,828	2.032	15,60	16,00	1, 2

* According to UL 758

UL 3398 Sn VW-1

-40°C to 150°C





DESIGN

Conductor:	CU ETP1 according to EN 13602, tinned
Insulation material:	XPE E-beam cross-linked
Covering:	UL 3398 acc. to UL 758

APPLICATION

Internal wiring of appliances up to 150°C dry.
UL File No. E498376.

TECHNICAL DATA

Voltage level:	300V
Flame rate:	VW-1

ACCORDING TO THE STANDARD

1. UL 758
2. CSA C22.2 No.210-15

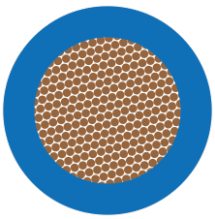
Type	Conductor						Core				
	Geometry						Geometry				According to the Standard
	SAE Conductor Size	Construction	Minimum conductor Area	Diameter nom.	Resistance (20°C)	Lay length	Wall thickness		Diameter		
	No.				Tinned max.	max.*	min.	Average min.	min.	max.	
		N x Ønom.[mm]	[mm²]	[mm]	[mΩ/m]	[mm]	[mm]		[mm]		
UL 3398 Sn VW-1	22	7 x 0,250	0,318	0,76	59,4	20	0,33	0,38	1,50	1,70	1, 2
UL 3398 Sn VW-1	22	17 x 0,160	0,318	0,76	59,4	20	0,33	0,38	1,50	1,70	1, 2
UL 3398 Sn VW-1	20	10 x 0,258	0,509	0,95	36,7	32	0,33	0,38	1,80	2,00	1, 2
UL 3398 Sn VW-1	18	7 x 0,387	0,807	1,15	23,2	51	0,33	0,38	1,90	2,10	1, 2
UL 3398 Sn VW-1	18	16 x 0,260	0,807	1,15	23,2	51	0,33	0,38	1,90	2,10	1, 2
UL 3398 Sn VW-1	16	7 x 0,486	1,28	1,38	14,6	51	0,33	0,38	2,30	2,50	1, 2
UL 3398 Sn VW-1	16	26 x 0,255	1,28	1,38	14,6	51	0,33	0,38	2,30	2,50	1, 2
UL 3398 sn VW-1	14	19 x 0,372	2,04	1,85	8,96	51	0,33	0,38	2,65	2,85	1, 2
UL 3398 sn VW-1	14	41 x 0,253	2,04	1,85	8,96	51	0,33	0,38	2,65	2,85	1, 2
UL 3398 Sn VW-1	12	19 x 0,468	3,24	2,36	5,64	51	0,33	0,38	3,20	3,40	1, 2
UL 3398 Sn VW-1	12	65 x 0,253	3,24	2,36	5,64	51	0,33	0,38	3,20	3,40	1, 2
UL 3398 Sn VW-1	10	105 x 0,251	5,16	2,94	3,546	64	0,33	0,38	3,83	4,03	1, 2

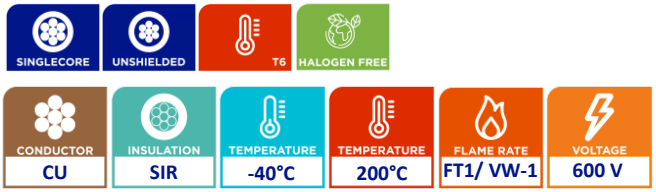
* According to UL 758

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.	N x Ønom. [mm]	[g/m]
UL 3398 Sn VW-1	22	7 x 0,250	5,3
UL 3398 Sn VW-1	22	17 x 0,160	5,3
UL 3398 Sn VW-1	20	10 x 0,258	7,8
UL 3398 Sn VW-1	18	7 x 0,387	10,9
UL 3398 Sn VW-1	18	16 x 0,260	10,9
UL 3398 Sn VW-1	16	7 x 0,486	16,0
UL 3398 Sn VW-1	16	26 x 0,255	16,0
UL 3398 Sn VW-1	14	19 x 0,372	22,0
UL 3398 Sn VW-1	14	41 x 0,253	22,0
UL 3398 Sn VW-1	12	19 x 0,468	35,3
UL 3398 Sn VW-1	12	65 x 0,253	35,3
UL 3398 Sn VW-1	10	105 x 0,251	54,1

UL 3512 VW-1

-40°C to 200°C





DESIGN

Conductor:	CU ETP1 according to EN 13602, bare
Insulation material:	Halogen free SIR (Silicon rubber)
Covering:	UL 3512, acc. to UL 758

APPLICATION

Internal Wiring of Appliances up to 200° where totally enclosed.

TECHNICAL DATA

Voltage level:	600V
Flame rate:	FT1 / VW-1

ACCORDING TO THE STANDARD

1. UL 758
2. CSA C22.2 No.210-15

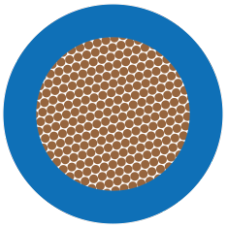
Type	Conductor Geometry						Core Geometry				According to the Standard
	SAE Conductor Size	Construction	Minimum conductor Area	Diameter nom.	Resistance (20°C)	Lay length	Wall thickness		Diameter		
	No.				Bare max.	max.*	min.	Average min.	min.	max.	
		N x Ønom.[mm]	[mm²]	[mm]	[mΩ/m]	[mm]	[mm]		[mm]		
UL 3512 VW-1	9	133 x 0,251	6,50	3,60	2,705	64	1,016	1,14	5,75	5,95	1, 2
UL 3512 VW-1	8	133 x 0,282	8,20	3,76	2,144	76	1,016	1,14	6,20	6,40	1, 2
UL 3512 VW-1	6	133 x 0,355	13,03	4,75	1,348	89	1,372	1,52	8,00	8,20	1, 2

* According to UL 758

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.		
		N x Ønom.[mm]	[g/m]
UL 3512 VW-1	9	133 x 0,251	86
UL 3512 VW-1	8	133 x 0,282	105
UL 3512 VW-1	6	133 x 0,355	170

UL 3644

-40°C to 200°C



SINGLECORE | UNSHIELDED | T6

CONDUCTOR	INSULATION	TEMPERATURE	TEMPERATURE	VOLTAGE	FLAME RATE
CU	SIR	-40°C	200°C	1000 V	Horizontal

DESIGN

Conductor: CU ETP1 according to EN 13602, bare
Insulation material: SIR (Silicone rubber)
Covering: UL 3644
acc. to UL 758

APPLICATION

Internal Wiring of Appliances where totally enclosed.

TECHNICAL DATA

Voltage level: 1000 V
Flame Rate: Horizontal

ACCORDING TO THE STANDARD

1. UL 758
2. CSA C22.2 No.210-15

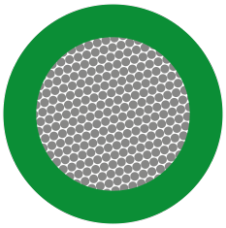
Type	Conductor							Core				
	Geometry							Geometry				According to the Standard
	SAE Conductor Size		Construction	Minimum conductor Area	Diameter nom.	Resistance (20°C)	Lay length	Wall thickness		Diameter		
	No.	mm²				Bare max.	Max.*	min.	Average min.	min.	max.	
			N x Ønom. [mm]	[mm²]	[mm]	[mΩ/m]	[mm]	[mm]		[mm]		
UL 3644	18	0,80	7 x 0,39	0,807	1,15	21,8	51	0,686	0,76	2,85	3,15	1, 2
UL 3644	16	1	7 x 0,49	1,28	1,40	13,7	51	0,686	0,76	3,15	3,45	1, 2
UL 3644	14	2	19 x 0,38	2,04	1,80	8,62	51	0,686	0,76	3,48	3,78	1, 2
UL 3644	12	3	19 x 0,47	3,24	2,30	5,43	51	0,686	0,76	3,91	4,21	1, 2
UL 3644	10	5	105 x 0,26	5,16	2,95	3,409	64	0,686	0,76	5,18	5,48	1, 2
UL 3644	8	8	61 x 0,42	8,20	3,76	2,144	76	1,01	1,14	6,75	7,26	1, 2
UL 3644	6	13	84 x 0,45	13,03	4,72	1,348	89	1,37	1,52	8,56	9,06	1, 2
UL 3644	4	19	133 x 0,45	20,73	5,96	0,8481	92	1,37	1,52	9,98	10,50	1, 2
UL 3644	2	32	259 x 0,405	32,95	7,50	0,5332	120	1,37	1,52	11,07	11,58	1, 2
UL 3644	1	40	259 x 0,46	41,56	8,45	0,423	130	1,83	2,03	12,98	13,48	1, 2
UL 3644	1/0	50	259 x 0,51	52,42	9,50	0,3354	150	1,83	2,03	14,38	14,88	1, 2
UL 3644	2/0	62	1330 X 0,260	66,08	10,65	0,266	160	1,83	2,03	15,55	16,05	1, 2
UL 3644	3/0	81	1672 X 0,260	83,31	11,94	0,211	180	1,83	2,03	16,79	17,29	1, 2
UL 3644	4/0	103	2109 x 0,260	105,1	13,41	0,1673	200	1,83	2,03	18,31	18,82	1, 2
UL 3644	250 kcmil	120	2280 x 0,270	124,1	14,52	0,1416	215	2,16	2,41	19,50	20,50	1, 2

* According to UL 758

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.	N x Ønom. [mm]	[g/m]
UL 3644	18	7 x 0,39	16
UL 3644	16	7 x 0,49	22
UL 3644	14	19 x 0,38	30
UL 3644	12	19 x 0,47	42
UL 3644	10	105 x 0,26	69
UL 3644	8	61 x 0,42	115
UL 3644	6	84 x 0,45	182
UL 3644	4	133 x 0,45	268
UL 3644	2	259 x 0,405	383
UL 3644	1	259 x 0,46	498
UL 3644	1/0	259 x 0,51	621
UL 3644	2/0	1330 X 0,260	759
UL 3644	3/0	1672 X 0,260	930
UL 3644	4/0	2109 x 0,260	1148
UL 3644	250 kcmil	2280 x 0,270	1348

UL 3644 Sn

40°C ... 200°C



SINGLECORE | UNSHIELDED | T6

CONDUCTOR	INSULATION	TEMPERATURE	TEMPERATURE	FLAME RATE	VOLTAGE
SN	SIR	-40° C	200° C	Horizontal	1000V

DESIGN

Conductor: CU ETP1 according to EN 13602, tinned
Insulation material: SIR (Silicon rubber)
Covering: UL 3644
acc. to UL 758

APPLICATION

Internal Wiring of Appliances where totally enclosed.

TECHNICAL DATA

Voltage level: 1000V
Flame rate: Horizontal

ACCORDING TO THE STANDARD

1. UL 758
2. CSA C22.2 No.210-15

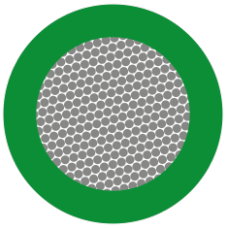
Type	Conductor							Core				According to the Standard
	Geometry							Geometry				
	SAE Conductor Size		Construction	Minimum conductor Area	Diameter nom.	Resistance (20°C)	Lay length	Wall thickness		Diameter		
	No.	mm²				Max.	Max.*	min.	Average min.	min.	max.	
			N x Ønom. [mm]	[mm²]	[mm]	[mΩ/m]	[mm]	[mm]		[mm]		
UL 3644 Sn	18	0,80	7 x 0,38	0,807	1,15	23,2	51	0,686	0,76	2,85	3,15	1, 2
UL 3644 Sn	16	1	7 x 0,48	1,28	1,40	14,6	51	0,686	0,76	3,15	3,45	1, 2
UL 3644 Sn	14	2	19 x 0,37	2,04	1,80	8,96	51	0,686	0,76	3,48	3,78	1, 2
UL 3644 Sn	12	3	19 x 0,47	3,24	2,30	5,64	51	0,686	0,76	3,91	4,21	1, 2
UL 3644 Sn	10	5	105 x 0,26	5,16	2,95	3,546	64	0,686	0,76	5,18	5,48	1, 2
UL 3644 Sn	8	8	61 x 0,42	8,20	3,76	2,23	76	1,01	1,14	6,75	7,26	1, 2
UL 3644 Sn	6	13	84 x 0,45	13,03	4,72	1,403	89	1,37	1,52	8,56	9,06	1, 2
UL 3644 Sn	4	19	133 x 0,455	20,73	5,96	0,849	92	1,37	1,52	9,98	10,50	1, 2
UL 3644 Sn	2	32	259 x 0,410	32,95	7,50	0,5335	120	1,37	1,52	11,07	11,58	1, 2
UL 3644 Sn	1	40	259 x 0,460	41,56	8,45	0,423	130	1,83	2,03	12,98	13,48	1, 2
UL 3644 Sn	1/0	50	259 x 0,52	52,42	9,50	0,3354	150	1,83	2,03	14,38	14,88	1, 2
UL 3644 Sn	2/0	62	1330 X 0,260	66,08	10,65	0,266	160	1,83	2,03	15,55	16,05	1, 2
UL 3644 Sn	3/0	81	1672 X 0,260	83,31	11,94	0,211	180	1,83	2,03	16,79	17,29	1, 2
UL 3644 Sn	4/0	103	2109 x 0,260	105,1	13,41	0,1673	200	1,83	2,03	18,31	18,82	1, 2

* According to UL 758.

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.	N x Ønom. [mm]	[g/m]
UL 3644 Sn	18	7 x 0,38	-
UL 3644 Sn	16	7 x 0,48	-
UL 3644 Sn	14	19 x 0,37	-
UL 3644 Sn	12	19 x 0,47	-
UL 3644 Sn	10	105 x 0,26	-
UL 3644 Sn	8	61 x 0,42	-
UL 3644 Sn	6	84 x 0,45	-
UL 3644 Sn	4	133 x 0,455	-
UL 3644 Sn	2	259 x 0,410	-
UL 3644 Sn	1	259 x 0,460	-
UL 3644 Sn	1/0	259 x 0,52	-
UL 3644 Sn	2/0	1330 X 0,260	-
UL 3644 Sn	3/0	1672 X 0,260	-
UL 3644 Sn	4/0	2109 x 0,260	-

UL 10086 sn 200°C

-40°C ... 200°C



SINGLECORE

CONDUCTOR	INSULATION	TEMPERATURE	TEMPERATURE	FLAME RATE	VOLTAGE
Sn	ETFE	- 40 °C	200 °C	VW-1	600 V

DESIGN AND CONSTRUCTION

Conductor: CU ETP1 according to EN 13602, tinned
Insulation Material: ETFE
Covering: UL 10086
acc. to UL 758

TECHNICAL DATA

Voltage level: 600 V
Flame rate: VW-1

APPLICATION

Internal wiring of appliances.

ACCORDING TO THE STANDARD

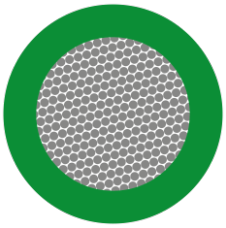
1. UL 758
2. CSA C22.2 No. 210-15

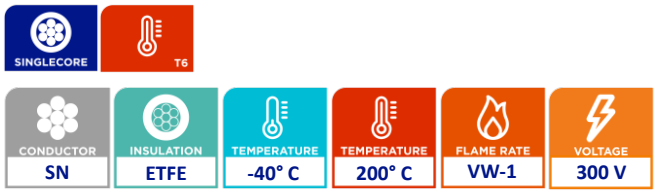
Type	Conductor					Core				
	Geometry				Resistance (20°C)	Geometry				According to the Standard
	SAE Conductor Size	Construction	Conductor Area		Tinned max.	Wall thickness		Diameter		
			Min.	Nom.		min.	Average min.	min.	max.	
	No.	N x Ønom. [mm]	[mm²]		[mΩ/m]	[mm]		[mm]		
UL 10086 sn	18	7 x 0,390	0,807	0,823	23,2	0,229	0,254	1,65	1,85	1, 2
UL 10086 sn	16	7 x 0,490	1,28	1,31	14,6	0,229	0,254	2,05	2,25	1, 2
UL 10086 sn	14	19 x 0,380	2,04	2,08	8,96	0,229	0,254	2,45	2,54	1, 2
UL 10086 sn	12	19 x 0,470	3,24	3,31	5,64	0,33	0,381	3,20	3,40	1, 2

Cable type			
Type	SAE Conductor Size	Construction	Weight Approx.
	No.	N x Ønom. [mm]	[g/m]
UL 10086 sn	18	7 x 0,390	10
UL 10086 sn	16	7 x 0,490	15
UL 10086 sn	14	19 x 0,380	23
UL 10086 sn	12	19 x 0,470	37

UL 10109 sn

-40°C ... 200°C





DESIGN

Conductor:	CU ETP1 according to EN 13602, tinned
Insulation material:	ETFE
Covering:	UL 10109 acc. to UL 758

APPLICATION

Internal wiring of appliances.

TECHNICAL DATA

Voltage level:	300 V
Temperature range:	-40°C ... 200°C
Flame rate:	VW-1

ACCORDING TO THE STANDARD

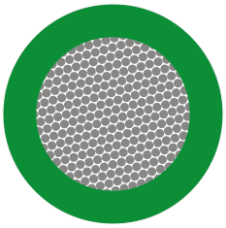
1. UL 758
2. CSA C22.2 No. 210-15

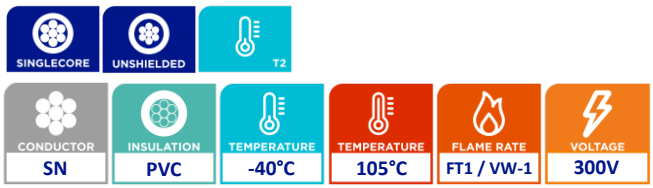
Type	Conductor				Cable				
	Geometry			Resistance (20°C)	Geometry				According to the Standard
	SAE Conductor Size	Construction	Minimum Conductor Area	Tinned max.	Wall thickness		Diameter		
	No.				min.	Average min.	min.	max.	
		N x Ønom.[mm]	[mm²]	[mΩ/m]	[mm]		[mm]		
UL 10109 sn	22	7 x 0,250	0,318	59,4	0,127	0,152	1,10	1,20	1, 2
UL 10109 sn	20	7 x 0,308	0,509	36,7	0,127	0,152	1,28	1,38	1, 2

Cable type			
Type	SAE Conductor Size	Construction	Weight Approx.
	No.	N x Ønom. [mm]	[g/m]
UL 10109 sn	22	7 x 0,250	4,2
UL 10109 sn	20	7 x 0,308	6,0

UL 11324 sn

-40°C to 105°C





DESIGN

Conductor: CU ETP1 according to EN 13602, tinned

Insulation material: Plasticized PVC

TECHNICAL DATA

Voltage level: 300V

Test Voltage: 3 kV

Flame rate: FT1 acc. To CSA C22.2
VW-1 acc. To UL 1581

PVC Shore A: 94 ± 3

APPLICATION

For the internal wiring of electrical and electronic devices.

ACCORDING TO THE STANDARD

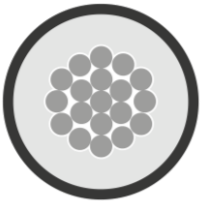
1. UL 758
2. CSA C22.2 No.210-15

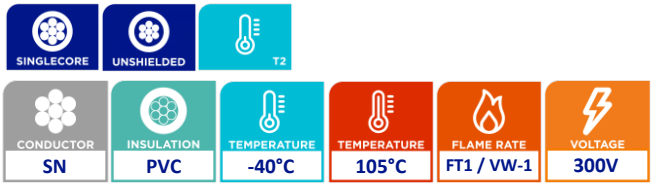
Type	Conductor					Cable			According to the Standard
	Geometry				Resistance (20°C)	Insulation			
	SAE Conductor Size	Construction	Minimum conductor Area	Lay Length	Tinned max.	Wall thickness min.	Avg. thickness min.	Diameter	
	No.	N x Ønom. [mm]	[mm²]	[mm]	[mΩ/m]	[mm]	[mm]	[mm]	
UL 11324 sn	22	12 x 0,190	0,318	17± 3	59,4	0,203	0,228	1,50 ± 0,15	1, 2
UL 11324 sn	20	19 x 0,190	0,509	23 ± 3	36,7	0,203	0,228	1,80 ± 0,10	1, 2

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.	N x Ønom. [mm]	[g/m]
UL 11324 sn	22	12 x 0,190	4,8
UL 11324 sn	20	19 x 0,190	7,3

UL 11324 sn
PVC/PA

-40°C to 105°C





DESIGN

Conductor:	CU ETP1 according to EN 13602, tinned
Insulation material:	Plasticized PVC
Covering:	PA (Nylon)

TECHNICAL DATA

Voltage level:	300V
Test Voltage:	3 kV
Flame rate:	FT1 acc. To CSA C22.2 VW-1 acc. To UL 1581
PVC Shore A:	94 ± 3
PA Nylon Shore D:	71

APPLICATION

For the internal wiring of electrical and electronic devices.

ACCORDING TO THE STANDARD

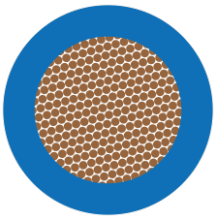
1. UL 758
2. CSA C22.2 No.210-15

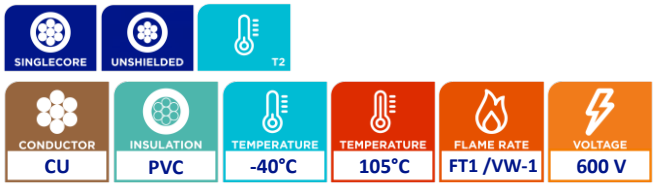
Type	Conductor					Cable					
	Geometry				Resistance (20°C)	Insulation			Covering		According to the Standard
	SAE Conductor Size	Construction	Minimum conductor Area	Lay Length	Tinned max.	Wall thickness min.	Avg. thickness min.	Diameter	Wall thickness max.	Diameter	
	No.	N x Ønom.[mm]	[mm²]	[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	[mm]	
UL 11324 sn	22	12 x 0,190	0,318	17± 3	59,4	0,203	0,228	1,30 ± 0,05	0,10	1,50 ± 0,15	1, 2
UL 11324 sn	20	19 x 0,190	0,509	23 ± 3	36,7	0,203	0,228	1,60 ± 0,05	0,10	1,80 ± 0,10	1, 2

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.	N x Ønom. [mm]	[g/m]
UL 11324 sn	22	12 x 0,190	4,8
UL 11324 sn	20	19 x 0,190	7,3

UL 11830

-40°C to 105°C





DESIGN

Conductor:	CU ETP1 according to EN 13602, bare
Insulation material:	plasticized PVC
Covering:	UL 11830 , acc. to UL 758

APPLICATION

Internal Wiring of Appliances.

TECHNICAL DATA

Voltage level:	600V
Flame rate:	FT1 / VW-1

ACCORDING TO THE STANDARD

1. UL 758
2. UL 60335-2-40 Section 23 Annex OO.2; OO.3

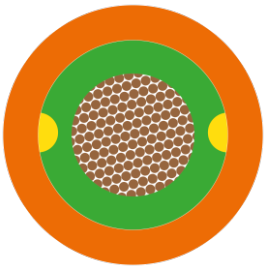
Type	Conductor						Core				
	Geometry						Geometry				According to the Standard
	SAE Conductor Size	Construction	Minimum conductor Area	Diameter nom.	Resistance (20°C)	Lay length	Wall thickness		Diameter		
	No.				Bare max.	max.*	min.	Average min.	min.	max.	
		N x Ønom.[mm]	[mm²]	[mm]	[mΩ/m]	[mm]	[mm]		[mm]		
UL 11830	22	7 x 0,244	0,318	0,95	55,4	20	0,686	0,76	2,24	2,38	1, 2
UL 11830	20	10 x 0,258	0,509	0,95	34,6	32	0,686	0,76	2,52	2,70	1, 2
UL 11830	18	16 x 0,256	0,807	1,15	21,8	51	0,686	0,76	2,72	2,87	1, 2
UL 11830	16	26 x 0,252	1,28	1,38	13,7	51	0,686	0,76	3,05	3,20	1, 2
UL 11830	14	41 x 0,253	2,04	1,80	8,62	51	0,686	0,76	3,40	3,55	1, 2
UL 11830	12	65 x 0,253	3,24	2,30	5,43	51	0,686	0,76	3,91	4,06	1, 2

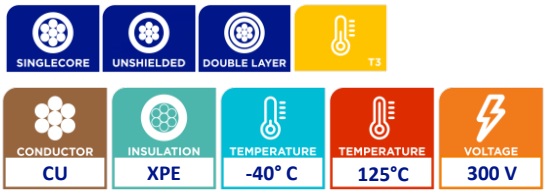
* According to UL 758

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.		
		N x Ønom. [mm]	[g/m]
UL 11830	22	7 x 0,244	8,5
UL 11830	20	10 x 0,258	12
UL 11830	18	16 x 0,256	15
UL 11830	16	26 x 0,252	21
UL 11830	14	41 x 0,253	28
UL 11830	12	65 x 0,253	42

UL 12082

-40°C ... 125°C





DESIGN

Conductor:	CU ETP1 according to EN 13602, bare
Insulation material:	XPE E-beam cross-linked
Covering:	XPE E-beam cross-linked

APPLICATION

Internal Wiring of Appliances.

TECHNICAL DATA

Voltage level:	300V
Flame rate:	Horizontal flame

ACCORDING TO THE STANDARD

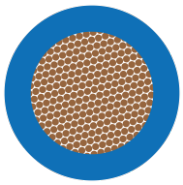
1. UL 758
2. ES-RU5T-1A348-BA

Type	Conductor						Inner layer		Outer cover		According to the Standard
	Geometry						Geometry		Geometry		
	Conductor Size		Construction	Conductor Diameter max.	Minimum cond. Area	Resistance (20°C)	Wall thickness min.	Diameter	Wall thickness min.	Diameter	
	SAE No.	Cross-section				Bare max.					
		[mm²]	N x Ønom.[mm]	[mm]	[mm²]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]	
UL 12082	20	0,50	19 x 0,90	1,10	0,509	34,6	0,40	1,90 – 2,10	0,40	2,95 – 3,15	1, 2
UL 12082	18	0,80	19 x 0,23	1,30	0,807	21,8	0,40	2,15 – 2,35	0,40	3,20 – 3,40	1, 2
UL 12082	17	1,00	19 x 0,265	1,50	1,02	17,3	0,40	2,40 – 2,60	0,40	3,45 – 3,65	1, 2
UL 12082	15	1,50	19 x 0,332	1,80	1,62	10,9	0,40	2,65 – 2,85	0,40	3,70 – 3,90	1, 2
UL 12082	14	2,00	19 x 0,375	2,00	2,04	8,62	0,40	2,85 – 3,05	0,40	3,90 – 4,10	1, 2
UL 12082	12	3,00	44 x 0,310	2,40	3,24	5,43	0,40	3,30 – 3,50	0,40	4,35 – 4,55	1, 2
UL 12082	11	4,00	56 x 0,306	2,80	4,09	4,3	0,40	3,65 – 3,85	0,40	4,70 – 4,90	1, 2
UL 12082	10	5,00	70 x 0,310	3,10	5,16	3,41	0,40	2,95 – 4,15	0,40	5,00 – 5,20	1, 2
UL 12082	9	6,00	84 x 0,315	3,40	6,50	2,71	0,40	4,30 – 4,50	0,40	5,35 – 5,55	1, 2

Cable type					
Type	Conductor Size		Construction	Color	
	SAE No.	Cross-section [mm²]	N x Ønom.[mm]	Outer Layer	Ineer Layer
UL 12082	20	0,50	19 x 0,90	-	-
UL 12082	18	0,80	19 x 0,23	Orange Orange Orange	Brown Blue Green/Yellow
UL 12082	17	1,00	19 x 0,265	-	-
UL 12082	15	1,50	19 x 0,332	Orange Orange Orange	Brown Blue Green/Yellow
UL 12082	14	2,00	19 x 0,375	-	-
UL 12082	12	3,00	44 x 0,310	Orange Orange Orange	Brown Blue Green/Yellow
UL 12082	11	4,00	56 x 0,306	Orange Orange Orange	Brown Blue Green/Yellow
UL 12082	10	5,00	70 x 0,310	-	-
UL 12082	9	6,00	84 x 0,315	-	-

UL THHW

-40°C to 105°C



SINGLECORE | UNSHIELDED | T2

CONDUCTOR	INSULATION	TEMPERATURE	TEMPERATURE	FLAME RATE	VOLTAGE
CU	PVC	-40°C	105°C	VW-1	600V

DESIGN

Conductor: CU ETP1 according to EN 13602, bare
Meet requirements of ASTM B3.
Insulation material: plasticized PVC
Covering: THHW
acc. to UL 83

APPLICATION

Suitable for most current wiring solutions for residential, commercial and industrial environments. It is used in service entrance, feeders and branch circuits for permanent installations, suitable as MTW.

TECHNICAL DATA

Voltage level: 600V
Flame rate: VW-1

ACCORDING TO THE STANDARD

1. UL 83
2. UL 1063

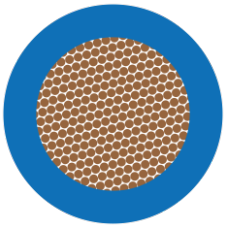
Type	Conductor						Core				According to the Standard
	Geometry						Geometry				
	SAE Conductor Size	Construction	Nominal conductor Area	Diameter nom.	Resistance (20°C)	Lay length	Wall thickness		Diameter		
	No.				Bare max.	max.*	min.	Average min.	min.	max.	
		N x Ønom. [mm]	[mm²]	[mm]	[mΩ/m]	[mm]	[mm]		[mm]		
UL THHW	14	41 x 0,253	2,04	1,80	8,62	51	0,69	0,76	3,40	3,55	1, 2
UL THHW	12	65 x 0,260	3,31	2,30	5,43	51	0,69	0,76	3,91	4,06	1, 2
UL THHW	10	105 x 0,260	5,26	2,95	3,41	64	0,69	0,76	4,55	4,75	1, 2
UL THHW	8	133 x 0,285	8,20	3,76	2,18	76	1,02	1,14	6,30	6,70	1, 2
UL THHW	6	133 x 0,355	13,03	4,72	1,325	89	1,372	1,52	8,15	8,35	1, 2

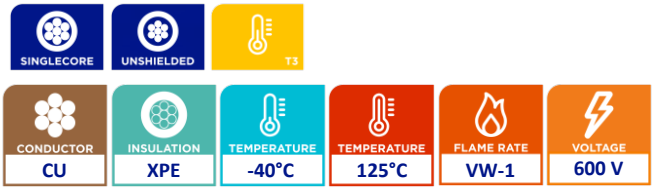
* According to UL 83

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.		
		N x Ønom. [mm]	[g/m]
UL THHW	14	41 x 0,253	29
UL THHW	12	65 x 0,260	42
UL THHW	10	105 x 0,260	62
UL THHW	8	133 x 0,285	105
UL THHW	6	133 x 0,355	169

UL SIS VW-1

-40°C ... 125°C





DESIGN

Conductor: CU ETP1 according to EN 13602, bare

Insulation material: XPE E-beam cross-linked

Covering: UL SIS acc. to UL 44

APPLICATION

Internal wiring of appliances up to 125°C dry.
UL File No. E498376.

TECHNICAL DATA

Voltage level: 600V

Flame rate: VW-1

ACCORDING TO THE STANDARD

1. UL 44

Type	Conductor						Core				
	Geometry						Geometry				According to the Standard
	SAE Conductor Size	Construction	Minimum conductor Area	Diameter nom.	Resistance (20°C)	Lay length	Wall thickness		Diameter		
	No.				Bare max.	Max.*	min.	Average min.	min.	max.	
		N x Ønom.[mm]	[mm²]	[mm]	[mΩ/m]	[mm]	[mm]		[mm]		
UL SIS VW-1	14	19 x 0,372	2,04	1,85	8,45	41	0,686	0,76	3,43	3,70	1
UL SIS VW-1	12	19 x 0,468	3,24	2,30	5,31	51	0,686	0,76	3,81	4,06	1
UL SIS VW-1	10	105 x 0,251	5,16	2,95	3,34	64	0,686	0,76	4,55	4,75	1
UL SIS VW-1	8	133 x 0,282	8,20	3,75	2,10	70	1,02	1,14	6,15	6,35	1

* According to UL 758.

Cable type			
Type	SAE Conductor Size	Construction	Weight approx.
	No.	N x Ønom. [mm]	[g/m]
UL SIS VW-1	14	19 x 0,372	29
UL SIS VW-1	12	19 x 0,468	42
UL SIS VW-1	10	105 x 0,251	62
UL SIS VW-1	9	133 x 0,282	105

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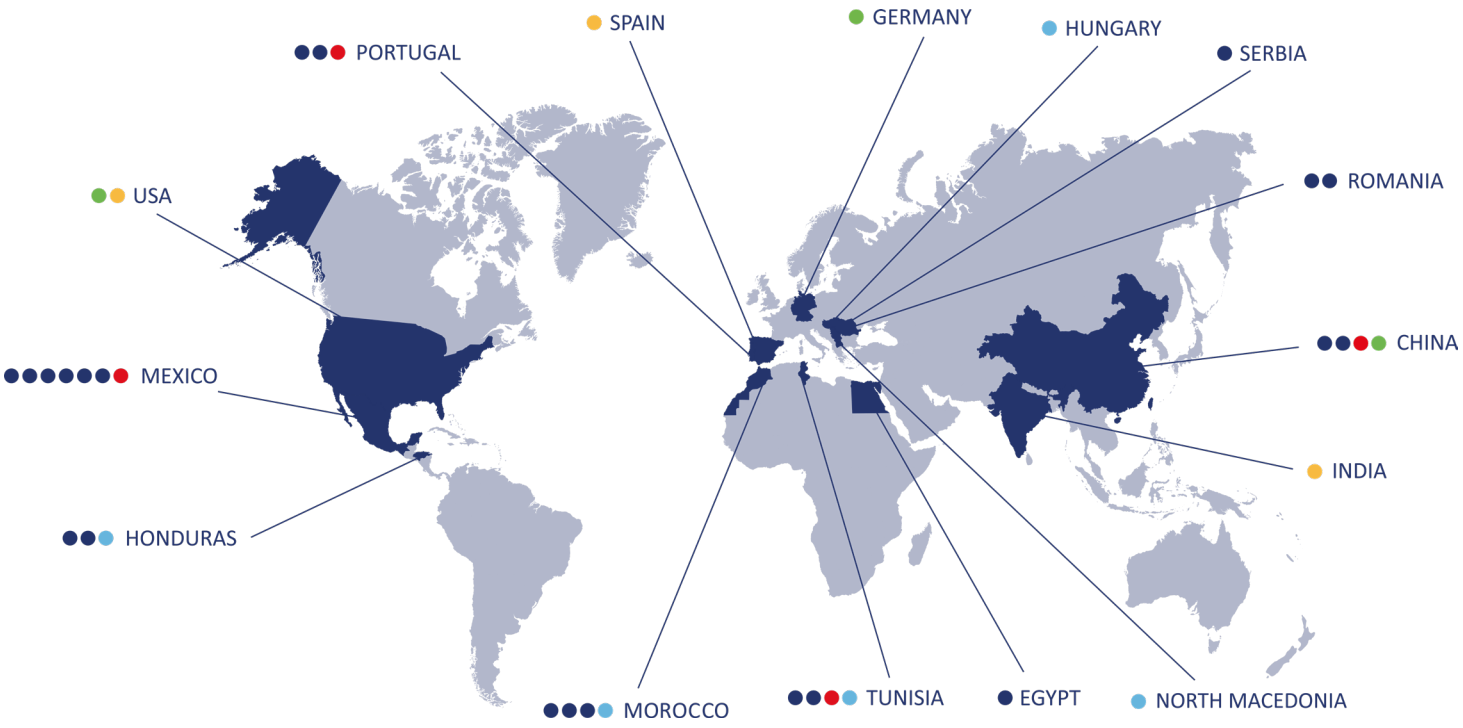
OUR FOOTPRINT



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