



WIRES & CABLES

FOR TOMORROW'S TECHNOLOGIES

CABLES FOR RENEWABLE ENERGY



COFICAB designs and manufactures high-quality cables for renewable energy applications, ensuring efficiency, durability, and performance

WWW.COFICAB.COM

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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



**ENVIRONMENT
HEALTH & SAFETY**

ISO 14001
ISO 45001
ISO 50001
EMAS

OEM accreditation by:

Daimler
FCA
FORD
GM
JLR
PSA
RSA
VW

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

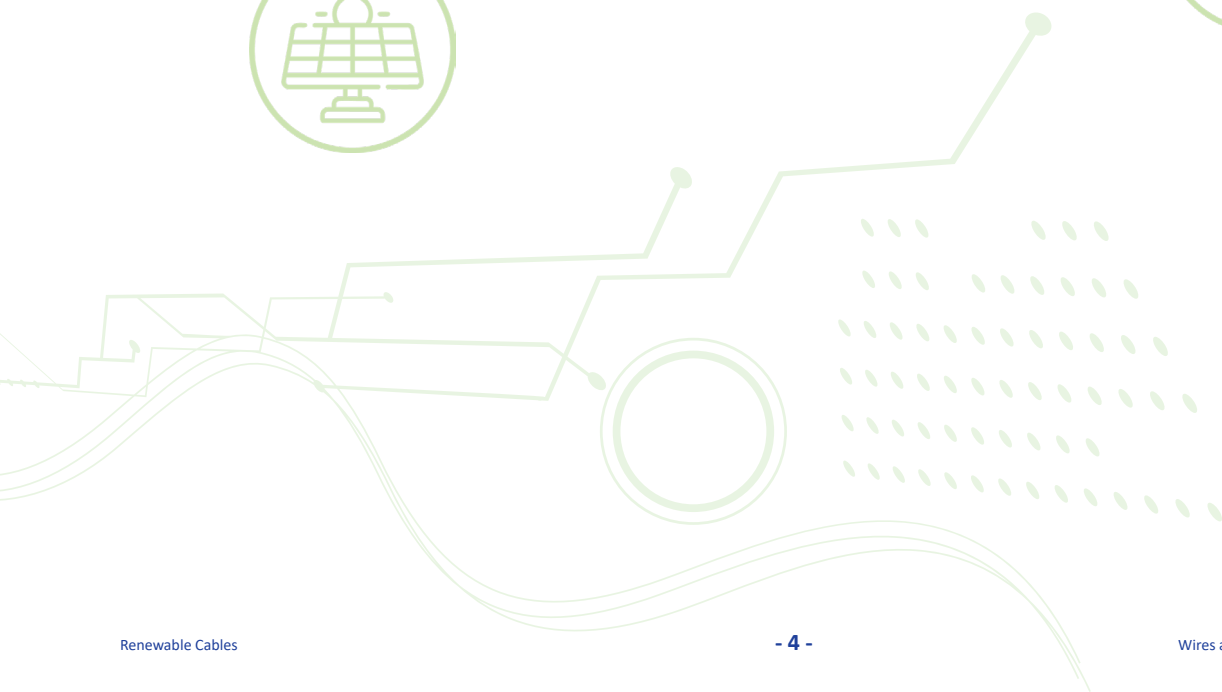
The environment care and protection are an integral part of our health and safety corporate policies and are key elements in our progress.

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.



RENEWABLES CABLES





RENEWABLES CABLES

PHOTOVOLTAIC

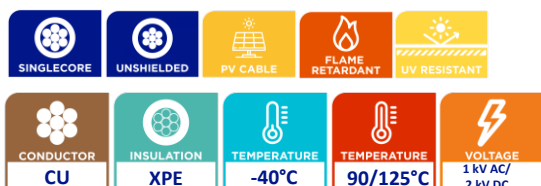
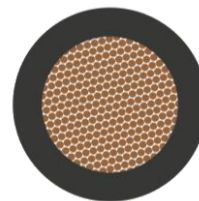


COFSolar 90	6
COFSolar 105 Flex	7
COFSolar 125 Flex	9

COFSolar 90

1kV a.c. / 2kV d.c.

UL 4703



DESIGN

Conductor: Cu ETP1 EN 13602
Insulation Material: XPE flame retardant and UV resistant

TECHNICAL DATA

Temperature rating: -40°C to 90°C Wet / 125°C Dry
Voltage level: 1kV a.c. / 2kV d.c. (Type USE-2 is permitted for 600-volt applications only)

APPLICATION

Electric cables for photovoltaic systems.

Type	Conductor				Cable		Current Rating	
	Geometry				Resistance (20°C)		Geometry	
	Conductor size		Construction	Diameter nom.	Bare max.	Wall thickness min. / nom.	Diameter nom.	Single cable free in air
	[AWG]	[mm²]	N x Ømax.[mm]	[mm]	[mΩ/m]	[mm]	[mm]	
COFSolar 90	12	3,0	19 x 0,47	2,32	5,43	1,73 / 1,90	6,50	30
COFSolar 90	10	5,0	19 x 0,60	2,95	3,41	1,73 / 1,90	7,00	40
COFSolar 90	8	8,0	19 x 0,76	3,71	2,14	1,96 / 2,15	8,30	55
COFSolar 90	6	13,0	19 x 0,94	4,73	1,32	1,96 / 2,15	9,30	75

Cable type		
Type	Conductor size [AWG]	Weight approx. [g/m]
COFSolar 90	12	75
COFSolar 90	10	96
COFSolar 90	8	142
COFSolar 90	6	177

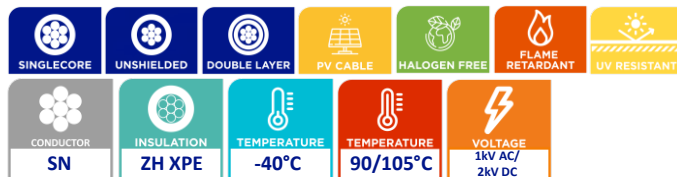
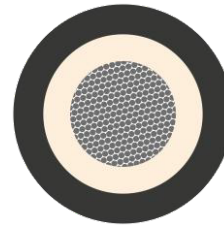
x – color code main color y – color code stripe color

Color Code			
Color	Code	Color	Code
White (WH)	A	Red (RD)	I
Grey (GY)	E	Brown (BN)	J
Yellow (YE)	F	Blue (BU)	M
Green (GN)	G	Black (BK)	N

COFSolar 105 Flex

1kV a.c. / 2kV d.c.

UL 4703



DESIGN

Conductor: Cu class 5, tinned
 Insulation Material: ZH XPE E-beam cross-linked
 Sheath Material: ZH XPE E-beam cross-linked
 UV resistant
 Sheath Colour: Black (Red or blue possible on customer request)

TECHNICAL DATA

Temperature rating: -40°C to 105°C
 Ambient temperature: -40°C to 90°C
 Voltage level: 1kV a.c. / 2kV d.c.

CONSTRUCTION

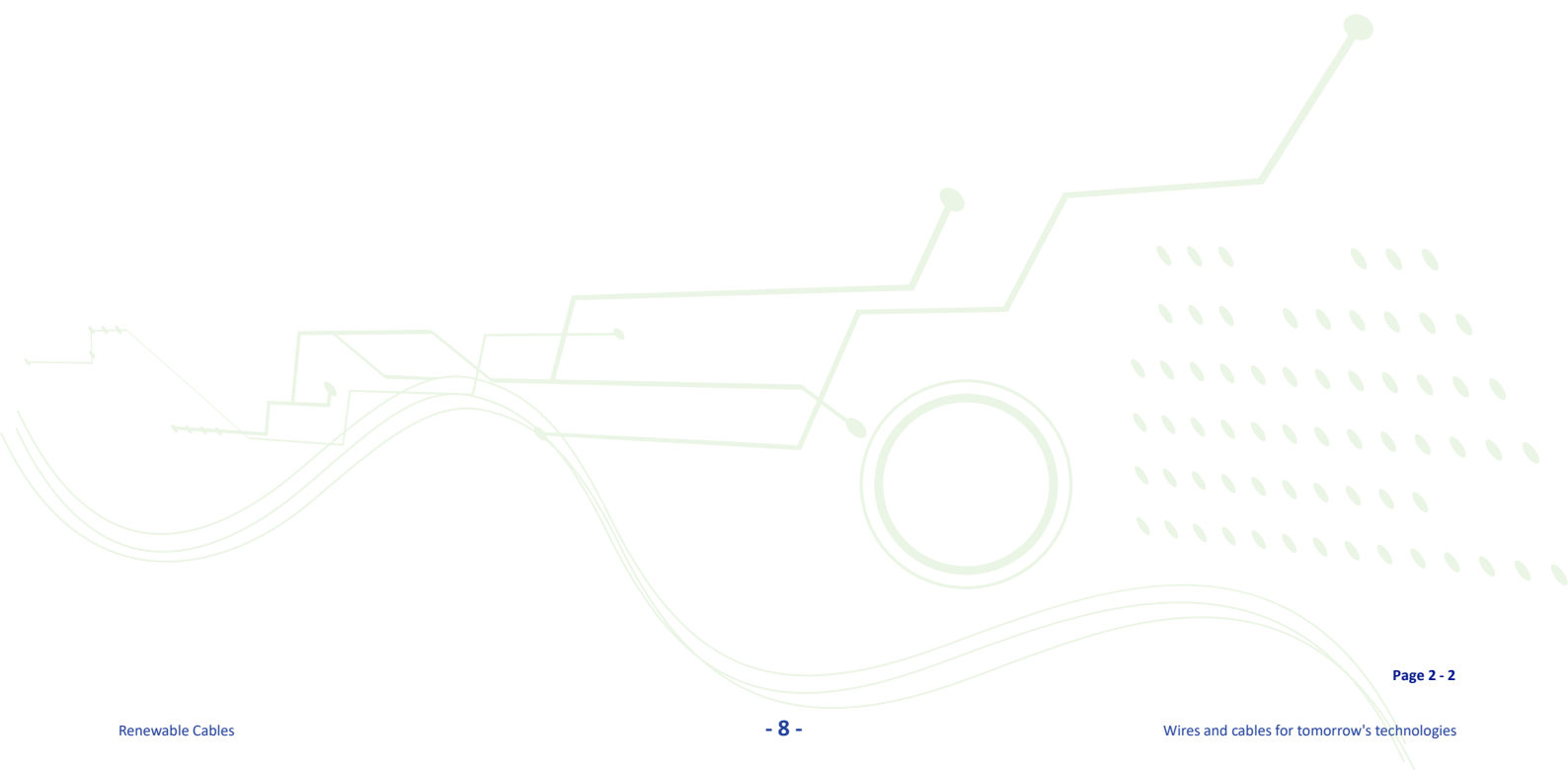
Insulation and sheath conjoined.

APPLICATION

Halogen free and flame retardant electric cables for photovoltaic systems.

Type	Conductor					Cable			
	Geometry				Resistance (20°C)	Insulation Geometry		Sheath Geometry	
	Conductor Size		Construction	Diameter nom. max. *	Tinned max.	Wall Thickness min./nom.	Diameter	Wall thickness min./nom.	Diameter
	[AWG]	[mm²]	N x Ø [mm] Ømax. *	[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]
COFSolar 105 Flex	14	2,08	28 x 0,3 ±0,02	1,85	8,96	1,05 / 1,14	4,25 ±0,15	0,69 / 0,76	5,80 ±0,2
COFSolar 105 Flex	-	2,50	46 x 0,26 *	2,40 *	8,21	1,05 / 1,14	4,35 ±0,15	0,69 / 0,76	5,90 ±0,2
COFSolar 105 Flex	12	3,31	45 x 0,3 ±0,02	2,32	5,64	1,05 / 1,14	4,7 ±0,15	0,69 / 0,76	6,27 ±0,2
COFSolar 105 Flex	-	4,00	50 x 0,31 *	3,00 *	5,09	1,05 / 1,14	4,8 ±0,15	0,69 / 0,76	6,35 ±0,2
COFSolar 105 Flex	10	5,26	72 x 0,3 ±0,02	2,95	3,55	1,05 / 1,14	5,35 ±0,15	0,69 / 0,76	6,90 ±0,2
COFSolar 105 Flex	-	6,00	76 x 0,31 *	3,90 *	3,39	1,25 / 1,39	5,9 ±0,15	0,69 / 0,76	7,50 ±0,2
COFSolar 105 Flex	8	8,37	113 x 0,3 ±0,02	3,71	2,23	1,25 / 1,39	6,6 ±0,15	0,69 / 0,76	8,20 ±0,2
COFSolar 105 Flex	-	10,00	74 x 0,41 *	5,10 *	1,95	1,25 / 1,39	6,9 ±0,15	1,02 / 1,14	9,30 ±0,2
COFSolar 105 Flex	6	13,30	182 x 0,3 ±0,02	4,67	1,40	1,25 / 1,39	7,65 ±0,15	1,02 / 1,14	10,10 ±0,2
COFSolar 105 Flex	-	16,00	118 x 0,41 *	6,30 *	1,24	1,25 / 1,39	7,9 ±0,15	1,02 / 1,14	10,35 ±0,2

Cable type				
Type	Cross-section		Main Color of sheath	Weight approx.
	[AWG]	[mm²]		[g/m]
COFSolar 105 Flex	14	2,08	Black Blue Red	48
COFSolar 105 Flex	-	2,50	Black Blue Red	50
COFSolar 105 Flex	12	3,31	Black Blue Red	61
COFSolar 105 Flex	-	4,00	Black Blue Red	66
COFSolar 105 Flex	10	5,26	Black Blue Red	83
COFSolar 105 Flex	-	6,00	Black Blue Red	93
COFSolar 105 Flex	8	8,37	Black Blue Red	124
COFSolar 105 Flex	-	10,00	Black Blue Red	153
COFSolar 105 Flex	6	13,30	Black Blue Red	195
COFSolar 105 Flex	-	16,00	Black Blue Red	212

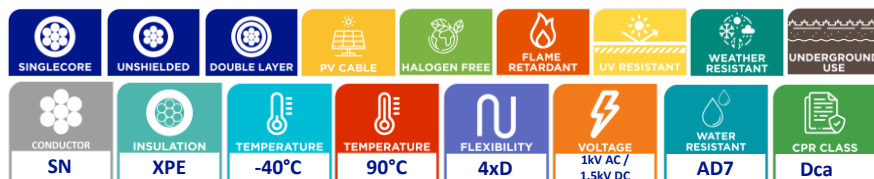
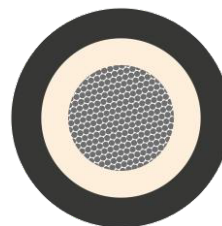


COFSolar 125 Flex

1kV a.c. / 1.5kV d.c.

EN 50618 (H1Z2Z2-K)

IEC 62930 (131)



DESIGN

Conductor: Cu ETP1 IEC 60228 Class 5, tinned
 Insulation Material: XPE
 zero halogen, flame retardant
 Sheath Material: XPE
 zero halogen, flame retardant and
 UV resistant and Weather resistant
 Sheath Colour: Black (Red or blue possible on customer request)

CONSTRUCTION

Insulation and sheath conjoined.

APPLICATION

Electric cables for photovoltaic systems. They are intended for permanent use outdoor and indoor, for free movable, free hanging and fixed installation. Installation also in conduits and trunkings on, in or under plaster as well as in appliances.

TECHNICAL DATA

Temperature rating: -40°C to 90°C
 Max. conductor temperature: 120°C/20 000h
 Rated Voltage AC U_0/U : Vac 1/1 kV (conductor-conductor and conductor-earth)
 Rated Voltage DC: Vdc 1,5 kV (conductor-conductor and conductor-earth)
 Max.Voltage DC: 1,8kV
 Test voltage: 6,5 kV a.c. / 15 kV d.c.
 Min. bending radius: 4xD (fixed installation)
 5xD (occasionally moved)
 Water resistant: AD7 acc. IEC 62930, Annex A
 CPR Class: Dca

Based on UL 854, Impact-Resistance and Crushing-Resistance Test, COFSolar 125 Flex cables will be suitable for the installation underground if the cable is laid in a cable trench.

Type	Conductor				Cable			Current Rating (60°C)		
	Geometry			Resistance (20°C)	Insulation Geometry	Sheath Geometry		Single cable free in air	Single cable on a surface	Two loaded cables touching, on a surface
	Cross-section	Construction	Diameter max.	Tinned max.	Wall thickness Specified value	Wall thickness Specified value	Diameter max. Informative value			
								[mm²]	N x Ømax.[mm]	[mm]
COFSolar 125 Flex	2,50	46 x 0,26	2,40	8,21	0,7	0,8	5,9	41	39	33
COFSolar 125 Flex	4,00	50 x 0,31	3,00	5,09	0,7	0,8	6,6	55	52	44
COFSolar 125 Flex	6,00	76 x 0,31	3,90	3,39	0,7	0,8	7,4	70	67	57
COFSolar 125 Flex	10,00	74 x 0,41	5,10	1,95	0,7	0,8	8,8	98	93	79
COFSolar 125 Flex	16,00	118 x 0,41	6,30	1,24	0,7	0,9	10,1	132	125	107

LICENSE HOLDER ADDRESS

COFICAB Tunisie
40, rue 18 Janvier 1952, 1001 Tunis RP – TUNISIA

CERTIFIED MANUFACTURING SITE

COFICAB Tunisie
COFICAB Portugal
COFICAB Eastern Europe

CERTIFICATION

Type Approved
Safety
Regular Production
Surveillance



www.tuv.com
ID 1111289257

Cable type			
Type	Cross-section	Main Color of sheath	Weight Approx.
	[mm²]		[g/m]
COFSolar 125 Flex	2,50	Black Blue Red	40
COFSolar 125 Flex	4,00	Black Blue Red	55
COFSolar 125 Flex	6,00	Black Blue Red	75
COFSolar 125 Flex	10,00	Black Blue Red	116
COFSolar 125 Flex	16,00	Black Blue Red	172

RENEWABLES CABLES



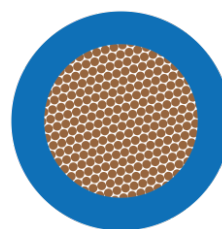
POWER AND CONTROL



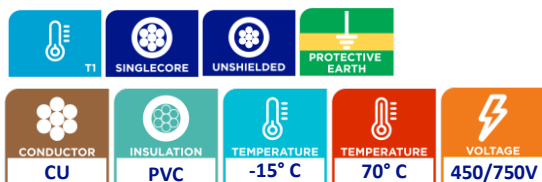
H07V-K	12
H07V2-K	13
H07Z-K	14
H07Z1-K	15
RV-K	16
RZ1-K	18
UL 3644	20

H07V-K

-15°C ... 70°C



COFICAB



DESIGN

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

ACCORDING TO THE STANDARD

1. EN 50525-2-31

TECHNICAL DATA

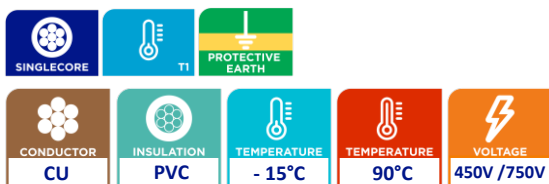
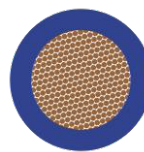
Voltage level: 450/750V
Temperature range: -15°C ... 70°C
Shore A 15'': 85±5

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

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

H07V2-K

-15°C to 90°C



DESIGN

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

ACCORDING TO THE STANDARD

1. EN 50525-2-31

TECHNICAL DATA

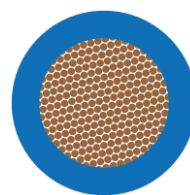
Voltage level: 450/750V
Temperature range: -15°C to 90°C

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

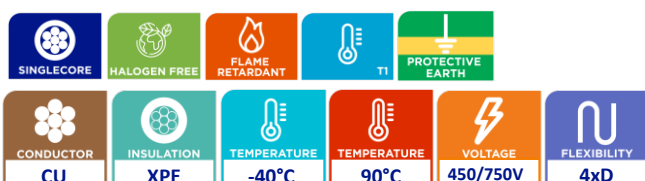
Cable type		
Type	Cross-section	Weight Approx.
	[mm²]	[g/m]
H07V2-K	1,50	19
H07V2-K	2,50	29
H07V2-K	4,00	43
H07V2-K	6,00	59
H07V2-K	10,00	101
H07V2-K	16,00	153
H07V2-K	25,00	237
H07V2-K	35,00	331

H07Z-K

-40°C ... 90°C



COFICAB



DESIGN

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

ACCORDING TO THE STANDARD

1. EN 50525-3-41

TECHNICAL DATA

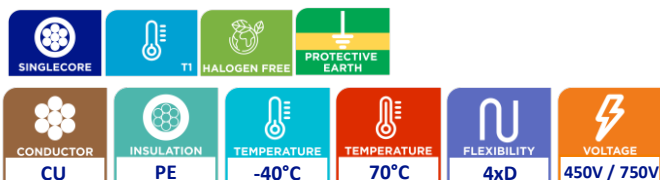
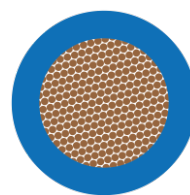
Voltage level: 450/750V
Test voltage: 2 500 V
Temperature range: -40°C ... 90°C
Min. bending radius: 4xD (static)

Type	Conductor		Resistance (20°C) Bare max. [mΩ/m]	Cable		According to the Standard
	Geometry			Geometry		
	Cross-section	Construction		Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]		[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

ACCORDING TO THE STANDARD

1. EN 50525-3-31

TECHNICAL DATA

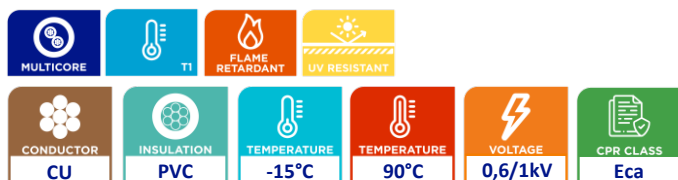
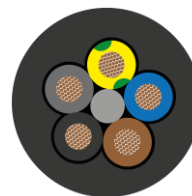
Voltage level: 450/750V
Test voltage: 2 500 V
Temperature range: -40°C ... 70°C
Min. bending radius: 4xD (static)

Type	Conductor			Cable		
	Geometry		Resistance (20°C)	Geometry		According to the Standard
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter	
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	
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

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

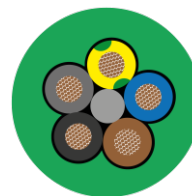
- UNE 21123-2
- IEC 60502-1

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

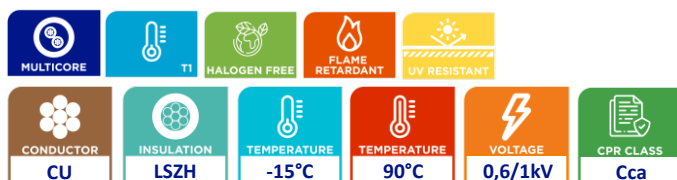
Type	Conductor			Core		Cable	
	Geometry		Resistance (20°C)	Geometry		Geometry	
	Cross-section	Construction	Bare max.	Wall thickness nom.	Diameter nom.	Wall thickness nom.	Diameter nom.
	[mm²]	N x Ømax.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]
RV-K	1x120,00	-	-	-	-	1,5	19,2
RV-K	1x150,00	-	-	-	-	1,6	21,5
RV-K	1x185,00	-	-	-	-	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



COFICAB



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

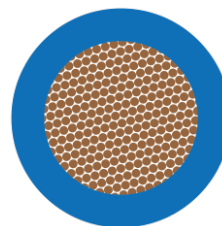
- UNE 21123-4
- IEC 60502-1

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

UL 3644

-40°C to 200°C



COFICAB



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

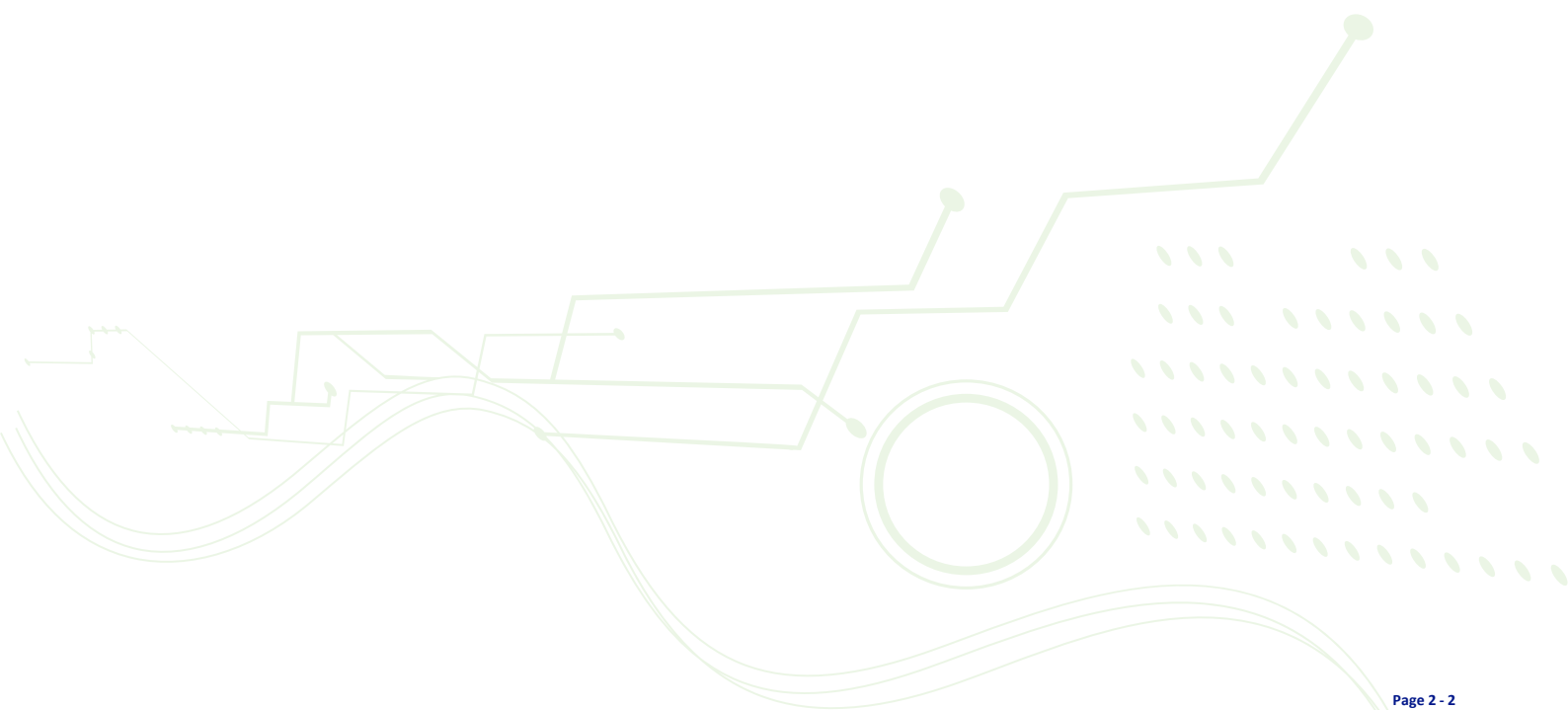
ACCORDING TO THE STANDARD

- UL 758
- 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		
						Bare max.	Max.*	min.	Average min.	min.	max.	
	No.	mm²	N x Ø _{nom.} [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 Ø _{nom.} [mm]	
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



RENEWABLES CABLES



COMMUNICATION

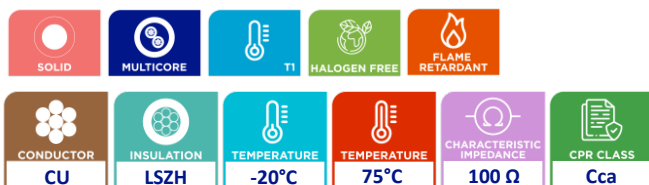
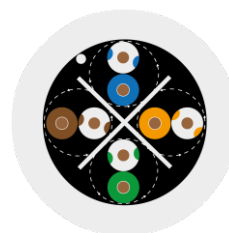


COFNET LAN CAT6 U/UTP H	23
COFNET CAT6A S/FTP H	24
COFTRONIC LiYCY	25

COFNET LAN

CAT6 U/UTP H

-20°C ... 75°C



DESIGN

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

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

CONSTRUCTION

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

ACCORDING TO THE STANDARD

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

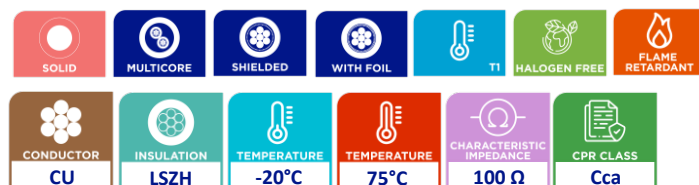
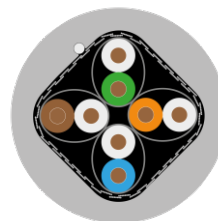
Type	Conductor			Core		Cable	
	Geometry		Resistance (20°C)	Geometry		Geometry	
	Cross-section	Construction	Bare max.	Wall thickness min.	Diameter	Wall thickness min./nom.	Diameter
	[mm²]	N x Ønom.[mm]	[mΩ/m]	[mm]	[mm]	[mm]	[mm]
COFNET LAN CAT6 U/UTP H	4 x (2 x 0,25)	1 x 0,56	70	0,18	0,93 – 1,06	0,46/0,58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

-20°C ... 75°C



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

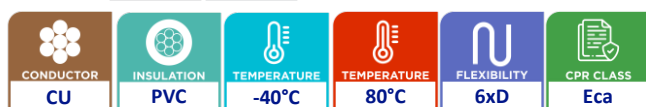
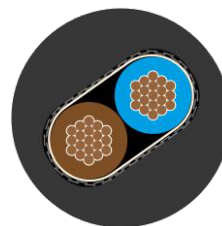
Type	Conductor			Core		Screen	Cable	
	Geometry		Resistance (20°C)	Geometry			Geometry	
	Cross-section	Construction	Bare max.	Wall thickness min.	Diameter	Coverage nom.	Wall thickness min.	Diameter
	[mm²]	N x Ønom.[mm]	[mΩ/m]	[mm]	[mm]	[%]	[mm]	[mm]
COFNET LAN CAT6A S/FTP H	4 x (2 x 0,25)	1 x 0,56	93,8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

COFTRONIC LiYCY

-40°C to 80°C



DESIGN

Conductor: CU ETP1 according to EN 13602
 Insulation material: plasticized PVC, TI2, acc. EN 50363-3
 Jacket Material: plasticized PVC, TM2, acc. EN 50363-4-1,
 Oil Resistance

CONSTRUCTION

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

ACCORDING TO THE STANDARD

1. VDE 0812

TECHNICAL DATA

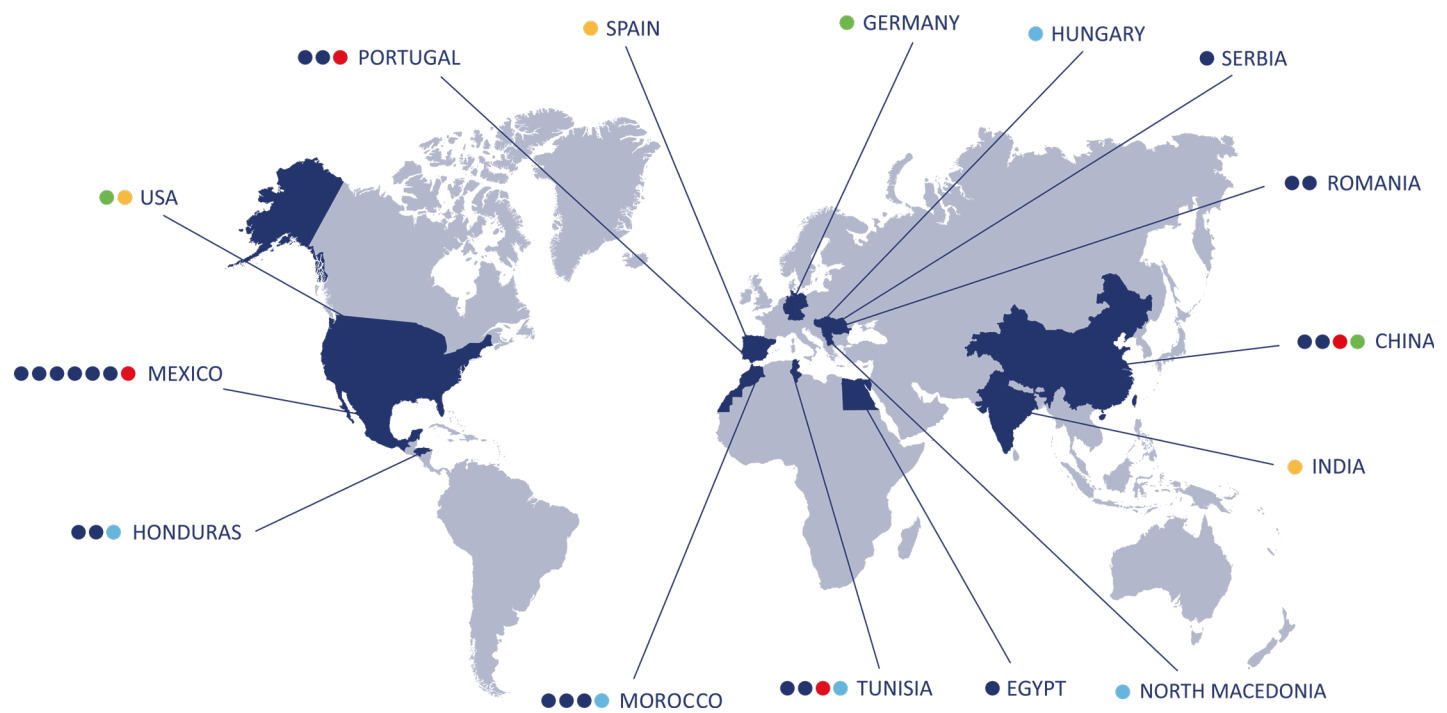
Temperature range: -40°C to 80°C (for fixed installation)
 -5°C to 70°C (for occasionally moved)
 Max. operating voltage: 350 V (for 0,14 mm²)
 500 V (for ≥ 0,25 mm²)
 Min. bending radius: 6xD (fixed installation)
 15xD (occasionally moved)
 Mutual capacitance (at 800Hz): ≈ 120 nF/km (core/core)
 ≈ 160 nF/km (core/screen)
 Inductance: ≈ 0,65 mH/km
 Test Voltage: 1 200 V (for 0,14 mm²)
 1 500 V (for ≥ 0,25 mm²)
 CPR Classification: Eca

Type	Conductor			Core		Screen	Cable			
	Geometry		Resistance (20°C)	Geometry			Geometry		According to the Standard	
	Cross-section	Construction		Bare max.	Wall thickness min./nom.	Diameter	Coverage nom.	Wall thickness min./nom.		Diameter nom.
COFTRONIC LiYCY	2 x 0,14	18 x 0,10	138,0	0,25 / 0,3	1,1 ±0,1	85	0,35 / 0,5	3,9	1	
COFTRONIC LiYCY	4 x 0,34	7 x 0,25	56,0	0,3 / 0,4	1,6 ±0,15	65	0,35 / 0,5	5,4	1	
COFTRONIC LiYCY	12 x 0,50	16 x 0,20	38,9	0,3 / 0,4	1,8 ±0,15	85	0,35 / 0,5	9,6	1	
COFTRONIC LiYCY	2 x 0,75	24 x 0,21	26,0	0,3 / 0,4	2,0 ±0,15	65	0,35 / 0,5	5,9	1	
COFTRONIC LiYCY	3 x 0,75	24 x 0,21	26,0	0,3 / 0,4	2,0 ±0,15	65	0,35 / 0,5	6,1	1	
COFTRONIC LiYCY	4 x 0,75	24 x 0,21	26,0	0,3 / 0,4	2,0 ±0,15	65	0,35 / 0,5	6,7	1	
COFTRONIC LiYCY	4 x 1,00	32 x 0,21	19,5	0,3 / 0,4	2,1 ±0,15	65	0,35 / 0,5	7,0	1	
COFTRONIC LiYCY	12 x 1,50	30 x 0,26	13,3	0,4 / 0,5	2,6 ±0,15	85	0,35 / 0,5	12,7	1	

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