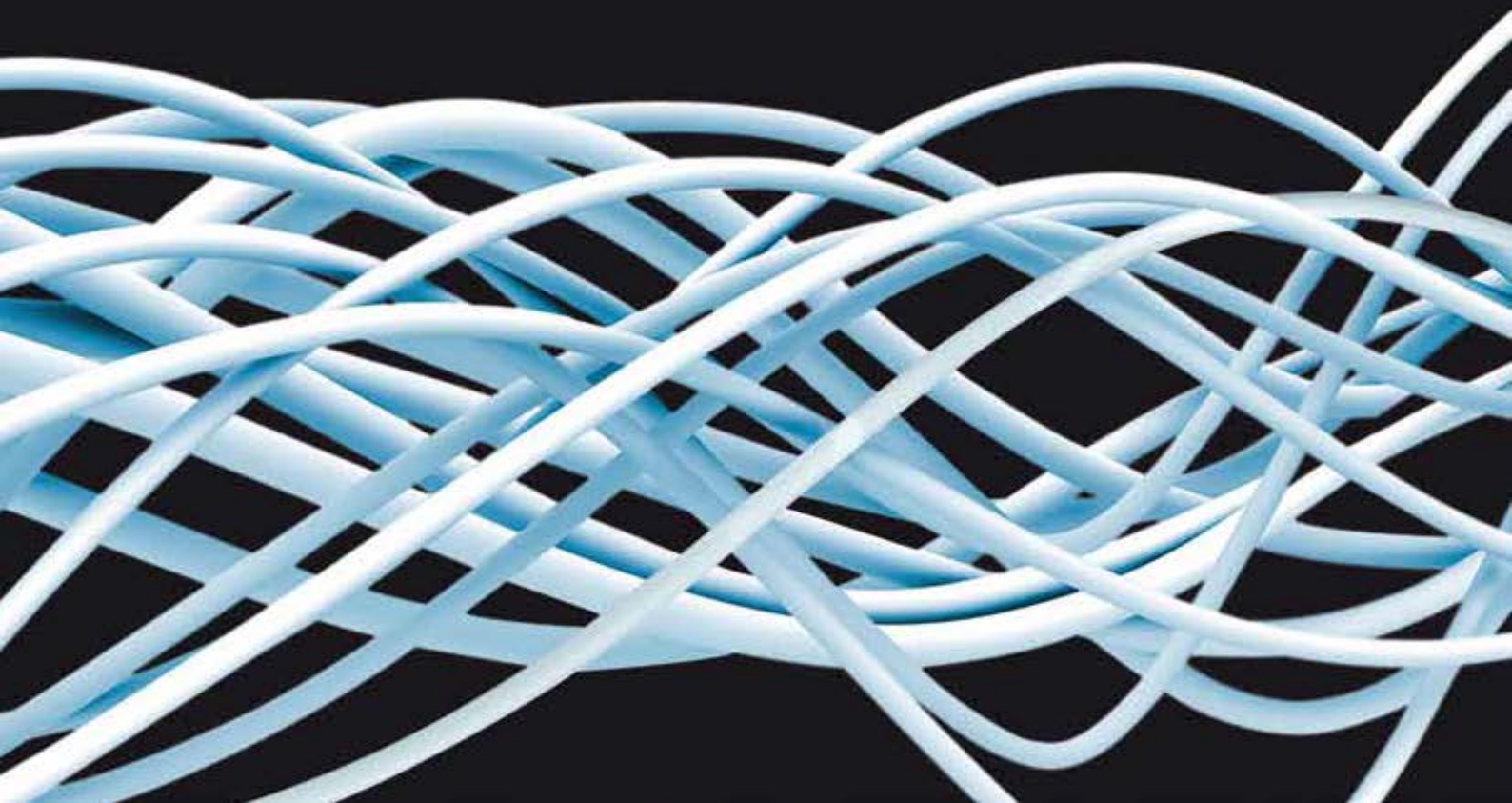


# CABLES & WIRES



italy



# WE CONNECT PEOPLE.

## **CABLES & WIRES – Italy**

an international trading  
and general consulting firm,  
the result of 30 years' experience,  
present and active in the cables market since 1983  
with our trading company SICE snc.

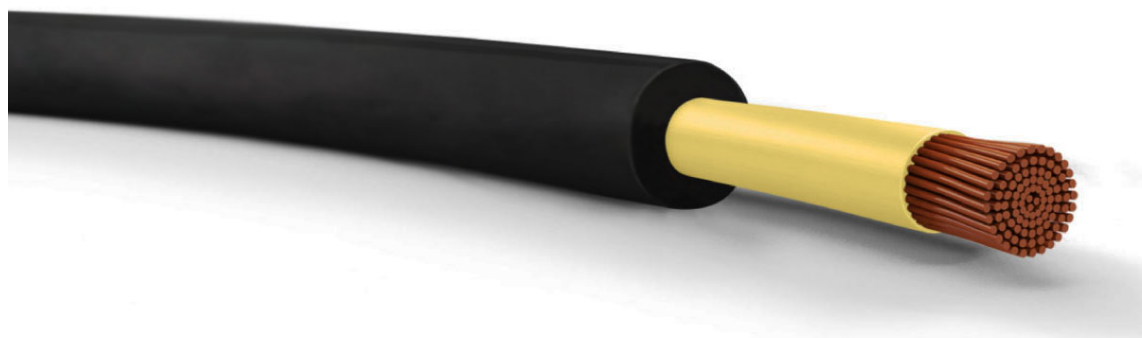
In 1999 we opened FCT, a factory specializing  
in the production of security cables,  
CCTV cables, Solar Cables and Fire Resistant Cables.

We are proud to inform you that today,  
with our new company "Cables and Wires",  
we are finally able to provide many types of cable  
in cooperation with various  
other cable manufacturers  
including cables for medium voltage.

## **PRICE – QUALITY – SERVICE**

*a new step in a business that looks to the future.*

# H01N2-D WELDING CABLE



Welding cables



### Technical data

Nominal voltage	100/100 V
Applications/Usage conditions	Use with hand held welding electrodes at 100 V.
Conductor	Flexible red copper
Sheath type	EM5 (EN 50363-2-2)
Sheath colour	Black
Operating temperatures	-20° C   +85° C
Short circuit temperature	max 200° C (max 5 sec.)
Test voltage	1000 V
Cable markings	IEMMEQU <HAR> H01N2-D (sect) mm <sup>2</sup> CE
Minimum bending radius	For cable up to 12 mm, 4 times the max external diameter in mobile laying and 3 times in fixed laying. For cable over 12 mm, 5 times the max external diameter for mobile laying and 4 times in fixed laying.

### Standard references

Main standard	EN 50525-2-81
Conductor	EN 50525-2-81
Self-Extinguishing	EN 60332-1-2; IEC 60332-1-2

### Dimensions

Cross section	Wires max diameter	Conductor diameter	Core thickness	Core diameter ± 0,1	Sheath thickness	Medium min outer diameter	Medium max outer diameter	Electrical resistance at 20° C	Cable approx. weight	Cu factor
(Nxmm <sup>2</sup> )	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(kg/km)	(Kg/km)
1x10,00	0,210	4,20	N/A	N/A	2,00	7,7	9,7	1,9100	155,32	96,00
1x16,00	0,210	5,10	N/A	N/A	2,00	8,8	11,0	1,2100	199,57	153,60
1x25,00	0,210	6,90	N/A	N/A	2,00	10,1	12,7	0,7800	287,20	240,00
1x35,00	0,210	7,80	N/A	N/A	2,00	11,4	14,2	0,5540	389,32	336,00
1x50,00	0,210	9,20	N/A	N/A	2,20	13,2	16,5	0,3860	536,53	480,00
1x70,00	0,210	10,70	N/A	N/A	2,40	15,3	19,2	0,2720	745,59	672,00
1x95,00	0,210	12,70	N/A	N/A	2,60	17,1	21,4	0,2060	929,23	912,00

# H1Z2Z2-K Solar cables



**Low smoke halogen-free, flexible, single-core power cables with cross-linked insulation and sheath.**



**Technical data**

Bca ]bU`j c`hJ[ Y	%\$#%\$ _J WU!`%` _J XW
5dd`]WU]cbg#l gU[ Y W`bX]h]cbg	H\Y`g]b[ `Y W`fY` < %N&N&! ? `WUV`Y`fYdfYgYbng`U`f][ \hgc`i`h]cb`h`c`])b`_h`Y`gc`U`f`WU`U`fg`VY`h`Y`b`h`Y`a` `cf` h`c`k` ]fY`k` ]h` Z`Y`ei` Y`b`W`h`W`b`j` Y`f`h`f`g`U`b`X`h`f`a` ]b`U` `V`c`U`f`X`g` H\Y` < %N&N&! ? `WUV`Y` [ i` U`f`U`b`h`Y`g` [ `cc`X` f`Y`g]g`h`U`b`W` h`c` i` J` !`f`U`ng`U`b`X`j` U`f`c`i` g`k` Y`U`h`Y`f` W`b`X`]h]cbg` H\Y`k` ]X`Y`k` c`f`_]b[ `h`Y`a` d`Y`f`U`h` f`Y`f`U`b[ `Y`U`c`k` g` h`Y`i` g`Y`U`gc` ]b` Y`i` f`Y`a` Y` W`b`X`]h]cbg`Z`U`j` c`X`]b[ `X`Y`h`f`c`f`U`h]cb` `W`U`i` g`Y`X`V`m`Y`U`h`U`b`X` d`Y`f`a` ]h]b[ `U`f`][ `h`i` g`Y` c`Z`h`Y` Z`c`h`j` c`h`U`]W`d`U`b`Y` ]b` Y`j` Y`f`m`g`Y`U`g`c`b`"
7cbXi W`cf	: `Y`i` ]V`Y`h]bb`Y`X` W`c`d`d`Y`f`
-bgi `U]h]cb`h`m`d`Y	7ca dci bX`W`b`Z`c`f`a` ]b[ `h`c` `9B` )` \$`*`%
G\Y`U`h`h`m`d`Y	7ca dci bX`W`b`Z`c`f`a` ]b[ `h`c` `9B` )` \$`*`%
G\Y`U`h` `W`c`i` f`	6`U`W`Z`V`i` Y`z`f`Y`X`
CdY`f`U`h]b[ `h`Y`a` d`Y`f`U`h`i` f`Y`g`	!`(` \$` `7`v`Z` - \$` `7`
G\c`f`h`W`f`W` ]h`h`Y`a` d`Y`f`U`h`i` f`Y`	A`U`i` &` \$` `7` )` g`Y`W`
HY`g`h`j` c`h`U`[` Y`	*)` \$`\$`J`U`W`!` %` \$`\$`J`X`W`
7UV`Y`a` U`f`_]b[` g`	< %N&N&! ? ` ` %` g`Y`W`i`a` a` ` `H`U`J` `F` \Y`]b`U`b`X` F`Y`[ ` `B`i` a` V`Y`f`8`W`U`!` g`&Z`X`&Z`U`%`a` U`i` ` %`z` ?` J`X`W`
A` ]b]a` i` a` `V`Y`b`X`]b[ `f`U`X`]i` g`	( `h`j`a` Y`g`h`Y` W`U`V`Y`X`]U`a` Y`h`Y`f` Z`c`f` Z`i` Y`X`U`b`X`a` c`V`]Y`U`n]b[ `"
B`c`h`Y`g`	D`f`Y`g`y`b`W` `c`Z`k` U`h`Y`f` `58` , `W`U`h`Y`[ `c`f`m`U`W`W`f`X`]b[ `h`c` `9B` )` \$` )`!` &!` &%`5`b`b`Y`i` `8` / `5`b`b`Y`i` `9` %`\$`\$`X`U`ng` U`h`&Z` _] `]b`k` U`h`Y`f`U`h` )` \$` & `7`"

**Standard references**

A`U`]b`g`h`U`b`X`U`f`X`	9B` )` \$`*`%
I`J` `F`Y`g]g`h`U`b`V`W`	9B` )` \$`*`%
7cbXi W`cf	9B` `*` \$`&&` /`-97` `*` \$`&&`,`
G`Y`Z`9I`h]b[`i` ]g\]b[`	9B` `*` \$` ` ` &!` %` &/`-97` `*` \$` ` ` &!` %` &`
C`n`c`b`Y` f`Y`g]g`h`U`b`V`W`	9B` )` \$` - `*` ,` %`"
K`U`h`Y`f` f`Y`g]g`h`U`b`V`W`	9B` )` \$` )`!` &!` &%`5`b`b`Y`i` `8` / `5`b`b`Y`i` `9`"

**Dimensions**

Cross section	Wires max diameter	Conductor diameter	Core thickness	Core diameter ± 0,1	Sheath thickness	Medium outer diameter ± 0,2	Electrical resistance at 20° C	Cable approx. weight	Cu factor
(Nxmm <sup>2</sup> )	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(kg/km)	(Kg/km)
1x2,50	0,250	N/A	0,75	3,50	0,80	5,1	8,2100	47,00	24,00
1x4,00	0,300	N/A	0,72	3,80	0,80	5,4	5,0900	58,00	38,40
1x6,00	0,300	N/A	0,74	4,40	0,80	6,0	3,3900	78,00	57,60
1x10,00	0,400	N/A	0,73	5,40	0,80	7,0	1,9500	125,00	96,00
1x16,00	0,400	N/A	0,74	6,40	0,90	8,2	1,2400	184,00	153,60



## DECLARATION OF PERFORMANCE

**Unique identification code of the product-**  
**type** H1Z2Z2-K *solar cable*

**Intended use**

Power, control and communication cables – Cables for general application in construction works subjected to reaction to fire requirements

**AVCP SYSTEM**

3

**Harmonized Standard**

EN 50575:2014 +

A1:2016 **Notified Body**

–

L.S. Fire Testing Institute S.r.l.

**Declared performance**

Fire Reaction: Dca –  
s2,d2,a1 Dangerous  
substances: none



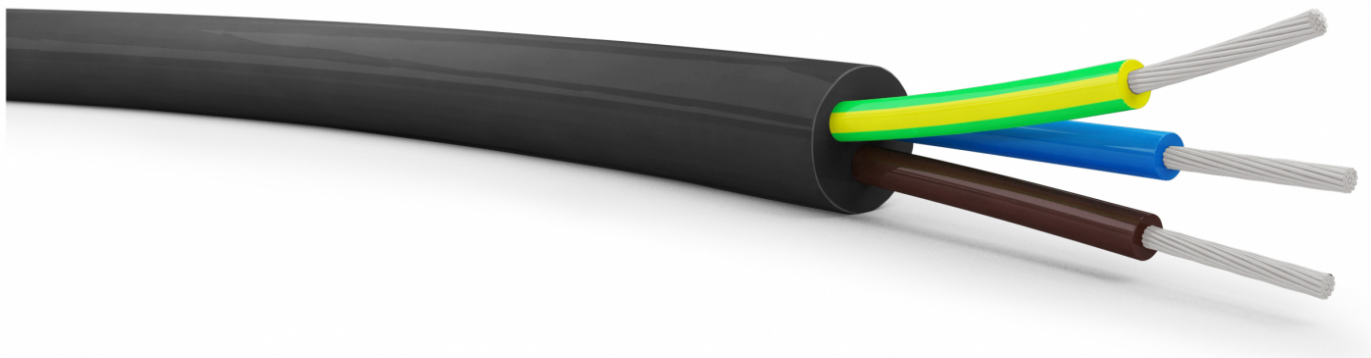
Cables for welding and battery applications



Technical data	
Nominal voltage Applications/ Usage conditions	450/750 V For secondary side connection of powers sources for hand or automatic metal-arc welding for secondary voltage typical of welding equipment.
Conductor	Flexible red copper
Sheath type	TM2 (EN 50363-4-1)
Sheath colour	Black
Operating temperatures	-20° C   +70° C
Short circuit temperature	160° C
Test voltage	2500 V
Cable markings	iFLEX (sect) mm <sup>2</sup> CE
Minimum bending radius	For cables with diameter up to 12 mm: 5 times the max. outer diameter in case of non-constrained motion and 4 times in case of fixed installation For cables with greater diameter: 6 times the max. outer diameter in case of non-constrained motion and 5 times in case of fixed installation.

Standard references	
Self-Extinguishing	EN 60332-1-2; IEC 60332-1-2

Dimensions									
Cross section (Nxmm <sup>2</sup> )	Wires max diameter (mm)	Conductor diameter (mm)	Core thickness (mm)	Core diameter ± 0,1 (mm)	Sheath thickness (mm)	Medium outer diameter ± 0,2 (mm)	Electrical resistance at 20° C (Ω/km)	Cable approx. weight (kg/km)	Cu factor (Kg/km)
1x10,00	0,310	3,84	1,80	N/A	N/A	7,6	2,0600	N/A	96,00
1x16,00	0,310	5,40	1,80	N/A	N/A	8,7	1,2800	N/A	153,60
1x25,00	0,310	6,50	1,90	N/A	N/A	10,3	0,8500	N/A	240,00
1x35,00	0,310	7,60	2,10	N/A	N/A	12,2	0,5800	N/A	336,00
1x50,00	0,310	9,30	2,20	N/A	N/A	14,1	0,4100	N/A	480,00
1x70,00	0,310	10,80	2,40	N/A	N/A	15,6	0,2800	N/A	672,00
1x95,00	0,310	12,50	2,64	N/A	N/A	17,8	0,2100	N/A	912,00
1x120,00	0,310	N/A	2,80	N/A	N/A	20,1	0,1700	N/A	1.152,00



SIHF Silicone cables, tinned copper wires, silicone insulating conductors and sheath



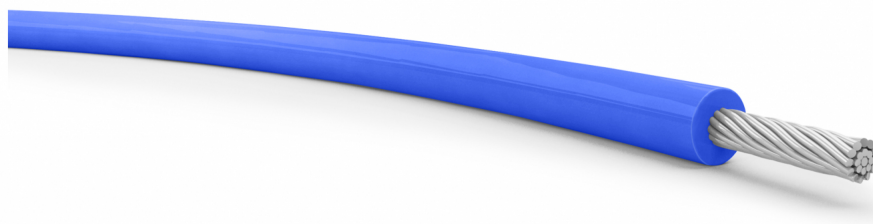
### Technical data

Nominal voltage	300/500 V
Applications/Usage conditions	Suitable for all wiring devices at constant temperature of 180 °C and for power supply under same conditions.
Conductor	Flexible tinned copper
Insulation type	Silicone rubber
Sheath type	Silicone rubber
Sheath colour	Black
Operating temperatures	-60° C   +180° C
Test voltage	2000 V
Cable markings	No markings

### Standard references

Conductor	EN 60228; IEC 60228
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# ICONE SIF (tinned copper)



SIF Flexible single core cable with silicone rubber insulation.



### Technical data

Nominal voltage	300/500 V
Applications/Usage conditions	For high temperatures produced by engines, transformers, generators, electric equipment, wiring harnesses for household appliances and lighting purposes.
Conductor	Flexible tinned copper
Insulation type	Silicone rubber
Sheath colour	On demand (one or two colours)
Operating temperatures	-60° C   +180° C
Short circuit temperature	230° C (max 5 sec.)
Test voltage	2000 V
Cable markings	No markings on cable

### Standard references

Conductor	EN 60228; IEC 60228
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### Dimensions

Cross section (Nxmm <sup>2</sup> )	Wires max diameter (mm)	Conductor diameter (mm)	Core thickness (mm)	Core diameter ± 0,1 (mm)	Sheath thickness (mm)	Medium outer diameter ±	Electrical resistance at 20° C (Ω/km)	Cable approx. weight (kg/km)	Cu factor (Kg/km)
						0,1 (mm)			
1x0,50	0,210	N/A	0,60	N/A	N/A	2,05	40,1000	9,50	4,80
1x0,75	0,210	N/A	0,60	N/A	N/A	2,35	26,7000	12,50	7,20
1x1,00	0,210	N/A	0,60	N/A	N/A	2,45	20,0000	14,80	9,60
1x1,50	0,260	N/A	0,60	N/A	N/A	2,75	13,7000	20,10	14,40
1x2,50	0,260	N/A	0,70	N/A	N/A	3,35	8,2100	30,70	24,00
1x4,00	0,310	N/A	0,80	N/A	N/A	4,15	5,0900	48,00	38,40
1x6,00	0,310	N/A	0,80	N/A	N/A	4,70	3,3900	64,70	57,60





**SIF-GL Flexible single core cable with silicone rubber insulation with fiberglass braiding.**



### Technical data

Nominal voltage	300/500 V
Applications/Usage conditions	For lighting equipment, for high temperatures produced by engines, transformers, generators, electric harnesses for household appliances.
Conductor	Flexible tinned copper
Insulation type	Silicone rubber
Sheath colour	On demand (one or two colours)
Operating temperatures	-60° C   +200° C
Short circuit temperature	230° C (max 5 sec.)
Test voltage	2000 V

### Standard references

Conductor	EN 60228; IEC 60228
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### Dimensions

Cross section (Nxmm <sup>2</sup> )	Wires max diameter (mm)	Conductor diameter (mm)	Core thickness (mm)	Core diameter ± 0,1 (mm)	Sheath thickness (mm)	Medium outer diameter ± 0,2 (mm)	Electrical resistance at 20° C (Ω/km)	Cable approx. weight (kg/km)	Cu factor (Kg/km)
1x0,50	0,210	0,87	0,60	N/A	N/A	2,30	40,1000	12,60	4,80
1x0,75	0,210	1,07	0,60	N/A	N/A	2,60	26,7000	16,00	7,20
1x1,00	0,210	1,23	0,60	N/A	N/A	2,70	20,0000	18,40	9,60
1x1,50	0,260	1,52	0,60	N/A	N/A	3,00	13,7000	23,70	14,40
1x2,50	0,260	1,96	0,70	N/A	N/A	3,60	8,2100	35,60	24,00
1x4,00	0,310	2,44	0,80	N/A	N/A	4,50	5,0900	53,30	38,40
1x6,00	0,310	2,96	0,80	N/A	N/A	5,30	3,3900	77,30	57,60

### Dimensions

Cross section (Nxmm <sup>2</sup> )	Wires max diameter (mm)	Conductor diameter (mm)	Core thickness (mm)	Core diameter ± 0,1 (mm)	Sheath thickness (mm)	Medium outer diameter ± 0,2 (mm)	Electrical resistance at 20° C (Ω/km)	Cable approx. weight (kg/km)	Cu factor (Kg/km)
2x0,50	0,200	0,87	0,60	N/A	0,70	5,40	40,1000	N/A	9,60
2x0,75	0,200	1,07	0,60	N/A	0,80	6,20	26,7000	N/A	14,40
2x1,00	0,200	1,23	0,60	N/A	0,80	6,40	20,0000	N/A	19,20
2x1,50	0,250	1,52	0,60	N/A	0,90	7,30	13,7000	N/A	28,80
2x2,50	0,250	1,96	0,70	N/A	1,20	9,10	8,2100	N/A	48,00
2x4,00	0,300	2,44	0,80	N/A	1,20	11,10	5,0900	N/A	76,80
2x6,00	0,300	2,96	0,80	N/A	2,00	13,10	3,3900	N/A	115,20
3x0,50	0,200	0,87	0,60	N/A	0,80	6,10	40,1000	N/A	14,40
3x0,75	0,200	1,07	0,60	N/A	0,80	6,50	26,7000	N/A	21,60
3x1,00	0,200	1,23	0,60	N/A	0,80	7,00	20,0000	N/A	28,80
3x1,50	0,250	1,52	0,60	N/A	0,90	7,60	13,7000	N/A	43,20
3x2,50	0,250	1,96	0,70	N/A	1,20	9,40	8,2100	N/A	72,00
3x4,00	0,300	2,44	0,80	N/A	1,20	11,30	5,0900	N/A	115,20
3x6,00	0,300	2,96	0,80	N/A	2,20	14,30	3,3900	N/A	172,80
4x0,50	0,200	0,87	0,60	N/A	0,80	6,70	40,1000	N/A	19,20
4x0,75	0,200	1,07	0,60	N/A	1,00	7,60	26,7000	N/A	28,80
4x1,00	0,200	1,23	0,60	N/A	0,90	7,80	20,0000	N/A	38,40
4x1,50	0,250	1,52	0,60	N/A	1,00	8,60	13,7000	N/A	57,60
4x2,50	0,250	1,96	0,70	N/A	1,20	10,40	8,2100	N/A	96,00

Cross section (Nxmm <sup>2</sup> )	Wires max diameter (mm)	Conductor diameter (mm)	Core thickness (mm)	Core diameter ± 0,1 (mm)	Sheath thickness (mm)	Medium outer diameter ± 0,2 (mm)	Electrical resistance at 20° C (Ω/km)	Cable approx. weight (kg/km)	Cu factor (Kg/km)
4x4,00	0,300	2,44	0,80	N/A	1,50	13,10	5,0900	N/A	153,60
4x6,00	0,300	2,96	0,80	N/A	2,40	15,90	3,3900	N/A	230,40
5x0,75	0,200	1,07	0,60	N/A	1,00	8,50	26,7000	N/A	36,00
5x1,00	0,200	1,23	0,60	N/A	1,00	8,60	20,0000	N/A	48,00
5x1,50	0,250	1,52	0,60	N/A	1,00	9,50	13,7000	N/A	72,00
5x2,50	0,250	1,96	0,70	N/A	1,20	11,50	8,2100	N/A	120,00
5x4,00	0,300	2,44	0,80	N/A	1,50	14,70	5,0900	N/A	192,00
6x0,75	0,200	1,07	0,60	N/A	1,00	9,20	26,7000	N/A	43,20
6x1,00	0,200	1,23	0,60	N/A	1,00	9,30	20,0000	N/A	57,60
6x1,50	0,250	1,52	0,60	N/A	1,00	10,30	13,7000	N/A	86,40
6x2,50	0,250	1,96	0,70	N/A	1,20	12,30	8,2100	N/A	144,00
7x0,75	0,200	1,07	0,60	N/A	1,00	9,20	26,7000	N/A	50,40
7x1,00	0,200	1,23	0,60	N/A	1,10	9,60	20,0000	N/A	67,20
7x1,50	0,250	1,52	0,60	N/A	1,00	10,30	13,7000	N/A	100,80
7x2,50	0,250	1,96	0,70	N/A	1,20	12,80	8,2100	N/A	168,00

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CABLES & WIRES



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