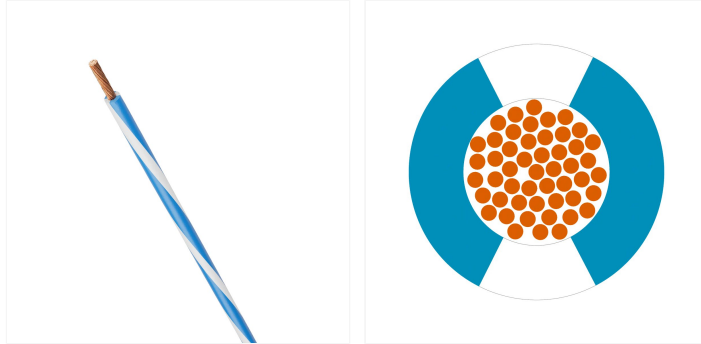


**X05V-K 2CHELIX 1X0,5 WHBU****Article No.:** 4512441SSingle conductor; 1X0.5; white/blue; Spool;  $U_0/U$ : 300/500 V; PVC; Fixed Installation**Details****Benefits**

- The two-color spiral allows the cable to be identified quickly in tight spaces.
- Compact design for easy processing.
- Versatile use in various applications and environments.
- Different conductor insulation colors available.
- Classified fire behavior according to EU Directive 305/2011 (BauPVO/CPR) with article number selection on the LAPP website.

**Application**

- For wiring circuits inside machines.
- For wiring lighting.
- For fixed and protected installation.
- Can be used for open installation on cable trays for equipotential bonding.
- Use at temperatures up to 40°C possible.

**Notes**

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

If applicable, the prices are solid metal prices without additional charges and VAT. Sales only to business customers.

Unless specified otherwise, the product values shown are rated values at room temperature. You can receive additional values, such as tolerances, upon request if they are available and have been released for publication.

Trade product, not a LAPP product.

#### Remarks

Trade product, not a LAPP product.

#### Technical Data

##### General information

Product type	Single conductor
Copper index	32.3 lb/10000 ft
Single core packaging type	Spool
Length per PU	820.21 ft
Industry segment	Assembly Machines Lifts & Elevators Packaging

##### Electrical parameters

Nominal voltage	$U_0/U$ : 300/500 V AC rms according to IEC
test voltage	2 kV
Current rating according to	VDE 0298-4

##### Product design

Cable dimension	1X0.5
Nominal cross section conductor (mm <sup>2</sup> )	0.5 mm <sup>2</sup>
Conductor material	Bare Copper
Conductor design	IEC 60228 class 5: fine-wire
Number of cores	1
Min. outer diameter	0.083 in
Max. outer diameter	0.098 in

Cable form	Round
Core insulation base material	Polyvinylchloride
Conductor insulation basic material, short form	PVC
Single core color	white/blue
Single conductor identification	Helix, two-colored

### Product features

Application area	Fixed Installation
Minimum bending radius, stationary	4 x outer diameter
Minimum bending radius in inch, fixed installation	0.394 in
Minimum bending radius with careful bending	2 x outer diameter
Temperature, fixed installation	-40 °C to 70 °C max. conductor temperature
Installation temperature min.	5 °C
Max. assembly temperature	70 °C
Storage temperature max.	5 °C
Storage temperature maximum	40 °C
Flame-retardant	Yes
Flame retardance according to	IEC 60332-1-2
UV-resistant	No
weather resistant	No
Ozone-resistant	No
Halogenfree	No
Oil resistant	No
PWIS-free	No

### Certifications and standards

CE marking	Yes
EAC certified	Yes
EAC certification number	EAЭC N RU Д-DE.АЮ64.В.00130/20, EAЭC N RU Д-DE.АЮ64.В.00142/20

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VDE certified	No
HAR-certified	No
CPR fire class	Eca
Resistance to flame propagation tested according to UN/ECE-R118	No

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**X05V-K with twin colour helix insulation**

Article No.	Name	Nominal cross section conductor (mm <sup>2</sup> )	Single core color	Single core packaging type	Length per PU	Min. outer diameter	Max. outer diameter	Copper index
4512213S	X05V-K 2CHELIX 1X1 BKRD	1 mm <sup>2</sup>	black/red	Spool	820.21 ft	0.094 in	0.11 in	64.51 lb/10000 ft
4512221S	X05V-K 2CHELIX 1X0,5 BKWH	0.5 mm <sup>2</sup>	black/white	Spool	820.21 ft	0.083 in	0.098 in	32.25 lb/10000 ft
4512222S	X05V-K 2CHELIX 1X0,75 BKWH	0.75 mm <sup>2</sup>	black/white	Spool	820.21 ft	0.087 in	0.106 in	48.38 lb/10000 ft
4512223S	X05V-K 2CHELIX 1X1 BKWH	1 mm <sup>2</sup>	black/white	Spool	820.21 ft	0.094 in	0.11 in	64.51 lb/10000 ft
4512231S	X05V-K 2CHELIX 1X0,5 BUBK	0.5 mm <sup>2</sup>	blue/black	Spool	820.21 ft	0.083 in	0.098 in	32.25 lb/10000 ft
4512232S	X05V-K 2CHELIX 1X0,75 BUBK	0.75 mm <sup>2</sup>	blue/black	Spool	820.21 ft	0.087 in	0.106 in	48.38 lb/10000 ft
4512233S	X05V-K 2CHELIX 1X1 BUBK	1 mm <sup>2</sup>	blue/black	Spool	820.21 ft	0.094 in	0.11 in	64.51 lb/10000 ft
4512241S	X05V-K 2CHELIX 1X0,5 BUGN	0.5 mm <sup>2</sup>	blue/green	Spool	820.21 ft	0.083 in	0.098 in	32.25 lb/10000 ft
4512242S	X05V-K 2CHELIX 1X0,75 BUGN	0.75 mm <sup>2</sup>	blue/green	Spool	820.21 ft	0.087 in	0.106 in	48.38 lb/10000 ft
4512243S	X05V-K 2CHELIX 1X1 BUGN	1 mm <sup>2</sup>	blue/green	Spool	820.21 ft	0.094 in	0.11 in	64.51 lb/10000 ft
4512251S	X05V-K 2CHELIX 1X0,5 BURD	0.5 mm <sup>2</sup>	blue/red	Spool	820.21 ft	0.083 in	0.098 in	32.25 lb/10000 ft
4512252S	X05V-K 2CHELIX 1X0,75 BURD	0.75 mm <sup>2</sup>	blue/red	Spool	820.21 ft	0.087 in	0.106 in	48.38 lb/10000 ft
4512253S	X05V-K 2CHELIX 1X1 BURD	1 mm <sup>2</sup>	blue/red	Spool	820.21 ft	0.094 in	0.11 in	64.51 lb/10000 ft
4512261S	X05V-K 2CHELIX 1X0,5 BUWH	0.5 mm <sup>2</sup>	blue/white	Spool	820.21 ft	0.083 in	0.098 in	32.3 lb/10000 ft
4512262S	X05V-K 2CHELIX 1X0,75 BUWH	0.75 mm <sup>2</sup>	blue/white	Spool	820.21 ft	0.087 in	0.106 in	48.4 lb/10000 ft
4512263S	X05V-K 2CHELIX 1X1 BUWH	1 mm <sup>2</sup>	blue/white	Spool	820.21 ft	0.094 in	0.11 in	64.5 lb/10000 ft
4512272S	X05V-K 2CHELIX 1X0,75 BNBK	0.75 mm <sup>2</sup>	brown/black	Spool	820.21 ft	0.087 in	0.106 in	48.38 lb/10000 ft

Article No.	Name	Nominal cross section conductor (mm <sup>2</sup> )	Single core color	Single core packaging type	Length per PU	Min. outer diameter	Max. outer diameter	Copper index
4512291S	X05V-K 2CHELIX 1X0,5 BNWH	0.5 mm <sup>2</sup>	brown/white	Spool	820.21 ft	0.083 in	0.098 in	32.25 lb/10000 ft
4512292S	X05V-K 2CHELIX 1X0,75 BNWH	0.75 mm <sup>2</sup>	brown/white	Spool	820.21 ft	0.087 in	0.106 in	48.38 lb/10000 ft
4512293S	X05V-K 2CHELIX 1X1 BNWH	1 mm <sup>2</sup>	brown/white	Spool	820.21 ft	0.094 in	0.11 in	64.51 lb/10000 ft
4512302S	X05V-K 2CHELIX 1X0,75 YEBK	0.75 mm <sup>2</sup>	yellow/black	Spool	820.21 ft	0.087 in	0.106 in	48.38 lb/10000 ft
4512303S	X05V-K 2CHELIX 1X1 YEBK	1 mm <sup>2</sup>	yellow/black	Spool	820.21 ft	0.094 in	0.11 in	64.51 lb/10000 ft
4512312S	X05V-K 2CHELIX 1X0,75 YERD	0.75 mm <sup>2</sup>	yellow/red	Spool	820.21 ft	0.087 in	0.106 in	48.38 lb/10000 ft
4512313S	X05V-K 2CHELIX 1X1 YERD	1 mm <sup>2</sup>	yellow/red	Spool	820.21 ft	0.094 in	0.11 in	64.51 lb/10000 ft
4512321S	X05V-K 2CHELIX 1X0,5 YEWH	0.5 mm <sup>2</sup>	yellow/white	Spool	820.21 ft	0.083 in	0.098 in	32.25 lb/10000 ft
4512322S	X05V-K 2CHELIX 1X0,75 YEWH	0.75 mm <sup>2</sup>	yellow/white	Spool	820.21 ft	0.087 in	0.106 in	48.38 lb/10000 ft
4512323S	X05V-K 2CHELIX 1X1 YEWH	1 mm <sup>2</sup>	yellow/white	Spool	820.21 ft	0.094 in	0.11 in	64.51 lb/10000 ft
4512333S	X05V-K 2CHELIX 1X1 GNBK	1 mm <sup>2</sup>	green/black	Spool	820.21 ft	0.094 in	0.11 in	64.51 lb/10000 ft
4512341S	X05V-K 2CHELIX 1X0,5 GNWH	0.5 mm <sup>2</sup>	green/white	Spool	820.21 ft	0.083 in	0.098 in	32.25 lb/10000 ft
4512342S	X05V-K 2CHELIX 1X0,75 GNWH	0.75 mm <sup>2</sup>	green/white	Spool	820.21 ft	0.087 in	0.106 in	48.38 lb/10000 ft
4512343S	X05V-K 2CHELIX 1X1 GNWH	1 mm <sup>2</sup>	green/white	Spool	820.21 ft	0.094 in	0.11 in	64.51 lb/10000 ft
4512351S	X05V-K 2CHELIX 1X0,5 VTBK	0.5 mm <sup>2</sup>	violet/black	Spool	820.21 ft	0.083 in	0.098 in	32.25 lb/10000 ft
4512352S	X05V-K 2CHELIX 1X0,75 VTBK	0.75 mm <sup>2</sup>	violet/black	Spool	820.21 ft	0.087 in	0.106 in	48.38 lb/10000 ft

Article No.	Name	Nominal cross section conductor (mm <sup>2</sup> )	Single core color	Single core packaging type	Length per PU	Min. outer diameter	Max. outer diameter	Copper index
4512353S	X05V-K 2CHELIX 1X1 VTBK	1 mm <sup>2</sup>	violet/black	Spool	820.21 ft	0.094 in	0.11 in	64.51 lb/10000 ft
4512371S	X05V-K 2CHELIX 1X0,5 VTWH	0.5 mm <sup>2</sup>	violet/white	Spool	820.21 ft	0.083 in	0.098 in	32.25 lb/10000 ft
4512372S	X05V-K 2CHELIX 1X0,75 VTWH	0.75 mm <sup>2</sup>	violet/white	Spool	820.21 ft	0.087 in	0.106 in	48.38 lb/10000 ft
4512373S	X05V-K 2CHELIX 1X1 VTWH	1 mm <sup>2</sup>	violet/white	Spool	820.21 ft	0.094 in	0.11 in	64.51 lb/10000 ft
4512381S	X05V-K 2CHELIX 1X0,5 OGBK	0.5 mm <sup>2</sup>	orange/black	Spool	820.21 ft	0.083 in	0.098 in	32.25 lb/10000 ft
4512382S	X05V-K 2CHELIX 1X0,75 OGBK	0.75 mm <sup>2</sup>	orange/black	Spool	820.21 ft	0.087 in	0.106 in	48.38 lb/10000 ft
4512383S	X05V-K 2CHELIX 1X1 OGBK	1 mm <sup>2</sup>	orange/black	Spool	820.21 ft	0.094 in	0.11 in	64.51 lb/10000 ft
4512391S	X05V-K 2CHELIX 1X0,5 OGWH	0.5 mm <sup>2</sup>	orange/white	Spool	820.21 ft	0.083 in	0.098 in	32.25 lb/10000 ft
4512392S	X05V-K 2CHELIX 1X0,75 OGWH	0.75 mm <sup>2</sup>	orange/white	Spool	820.21 ft	0.087 in	0.106 in	48.38 lb/10000 ft
4512393S	X05V-K 2CHELIX 1X1 OGWH	1 mm <sup>2</sup>	orange/white	Spool	820.21 ft	0.094 in	0.11 in	64.5 lb/10000 ft
4512401S	X05V-K 2CHELIX 1X0,5 RDBK	0.5 mm <sup>2</sup>	red/black	Spool	820.21 ft	0.083 in	0.098 in	32.25 lb/10000 ft
4512402S	X05V-K 2CHELIX 1X0,75 RDBK	0.75 mm <sup>2</sup>	red/black	Spool	820.21 ft	0.087 in	0.106 in	48.38 lb/10000 ft
4512403S	X05V-K 2CHELIX 1X1 RDBK	1 mm <sup>2</sup>	red/black	Spool	820.21 ft	0.094 in	0.11 in	64.51 lb/10000 ft
4512412S	X05V-K 2CHELIX 1X0,75 RDYE	0.75 mm <sup>2</sup>	red/yellow	Spool	820.21 ft	0.087 in	0.106 in	48.38 lb/10000 ft
4512413S	X05V-K 2CHELIX 1X1 RDYE	1 mm <sup>2</sup>	red/yellow	Spool	820.21 ft	0.094 in	0.11 in	64.51 lb/10000 ft
4512421S	X05V-K 2CHELIX 1X0,5 RDWH	0.5 mm <sup>2</sup>	red/white	Spool	820.21 ft	0.083 in	0.098 in	32.25 lb/10000 ft

Article No.	Name	Nominal cross section conductor (mm <sup>2</sup> )	Single core color	Single core packaging type	Length per PU	Min. outer diameter	Max. outer diameter	Copper index
4512422S	X05V-K 2CHELIX 1X0,75 RDWH	0.75 mm <sup>2</sup>	red/white	Spool	820.21 ft	0.087 in	0.106 in	48.38 lb/10000 ft
4512423K	X05V-K 2CHELIX EMBOSS 1X1 RDWH	1 mm <sup>2</sup>	red/white	Large Cardboard Box	6,561.68 ft	0.094 in	0.11 in	64.51 lb/10000 ft
4512423S	X05V-K 2CHELIX 1X1 RDWH	1 mm <sup>2</sup>	red/white	Spool	820.21 ft	0.094 in	0.11 in	64.5 lb/10000 ft
4512431S	X05V-K 2CHELIX 1X0,5 WHBK	0.5 mm <sup>2</sup>	white/black	Spool	820.21 ft	0.083 in	0.098 in	32.25 lb/10000 ft
4512432S	X05V-K 2CHELIX 1X0,75 WHBK	0.75 mm <sup>2</sup>	white/black	Spool	820.21 ft	0.087 in	0.106 in	48.38 lb/10000 ft
4512433S	X05V-K 2CHELIX 1X1 WHBK	1 mm <sup>2</sup>	white/black	Spool	820.21 ft	0.094 in	0.11 in	64.51 lb/10000 ft
4512441S	X05V-K 2CHELIX 1X0,5 WHBU	0.5 mm <sup>2</sup>	white/blue	Spool	820.21 ft	0.083 in	0.098 in	32.3 lb/10000 ft
4512442S	X05V-K 2CHELIX 1X0,75 WHBU	0.75 mm <sup>2</sup>	white/blue	Spool	820.21 ft	0.087 in	0.106 in	48.38 lb/10000 ft
4512443S	X05V-K 2CHELIX 1X1 WHBU	1 mm <sup>2</sup>	white/blue	Spool	820.21 ft	0.094 in	0.11 in	64.51 lb/10000 ft
4512452S	X05V-K 2CHELIX 1X0,75 WHBN	0.75 mm <sup>2</sup>	white/brown	Spool	820.21 ft	0.087 in	0.106 in	48.38 lb/10000 ft
4512453S	X05V-K 2CHELIX 1X1 WHBN	1 mm <sup>2</sup>	white/brown	Spool	820.21 ft	0.094 in	0.11 in	64.51 lb/10000 ft
4512462S	X05V-K 2CHELIX 1X0,75 WHRD	0.75 mm <sup>2</sup>	white/red	Spool	820.21 ft	0.087 in	0.106 in	48.38 lb/10000 ft
4512463S	X05V-K 2CHELIX 1X1 WHRD	1 mm <sup>2</sup>	white/red	Spool	820.21 ft	0.094 in	0.11 in	64.51 lb/10000 ft
4512471S	X05V-K 2CHELIX 1X0,5 GYBK	0.5 mm <sup>2</sup>	gray/black	Spool	820.21 ft	0.083 in	0.098 in	32.25 lb/10000 ft
4512472S	X05V-K 2CHELIX 1X0,75 GYBK	0.75 mm <sup>2</sup>	gray/black	Spool	820.21 ft	0.087 in	0.106 in	48.38 lb/10000 ft
4512473S	X05V-K 2CHELIX 1X1 GYBK	1 mm <sup>2</sup>	gray/black	Spool	820.21 ft	0.094 in	0.11 in	64.51 lb/10000 ft
								32.25 lb/10000

Article No.	Name	Nominal cross section conductor (mm <sup>2</sup> )	Single core color	Single core packaging type	Length per PU	Min. outer diameter	Max. outer diameter	Copper index
4512921S	X05V-K 2CHELIX 1X0,5 DBUWH	0.5 mm <sup>2</sup>	dark blue/white	Spool	820.21 ft	0.083 in	0.098 in	ft
4512922S	X05V-K 2CHELIX 1X0,75 DBUWH	0.75 mm <sup>2</sup>	dark blue/white	Spool	820.21 ft	0.087 in	0.106 in	48.38 lb/10000 ft
4512923S	X05V-K 2CHELIX 1X1 DBUWH	1 mm <sup>2</sup>	dark blue/white	Spool	820.21 ft	0.094 in	0.11 in	64.51 lb/10000 ft

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