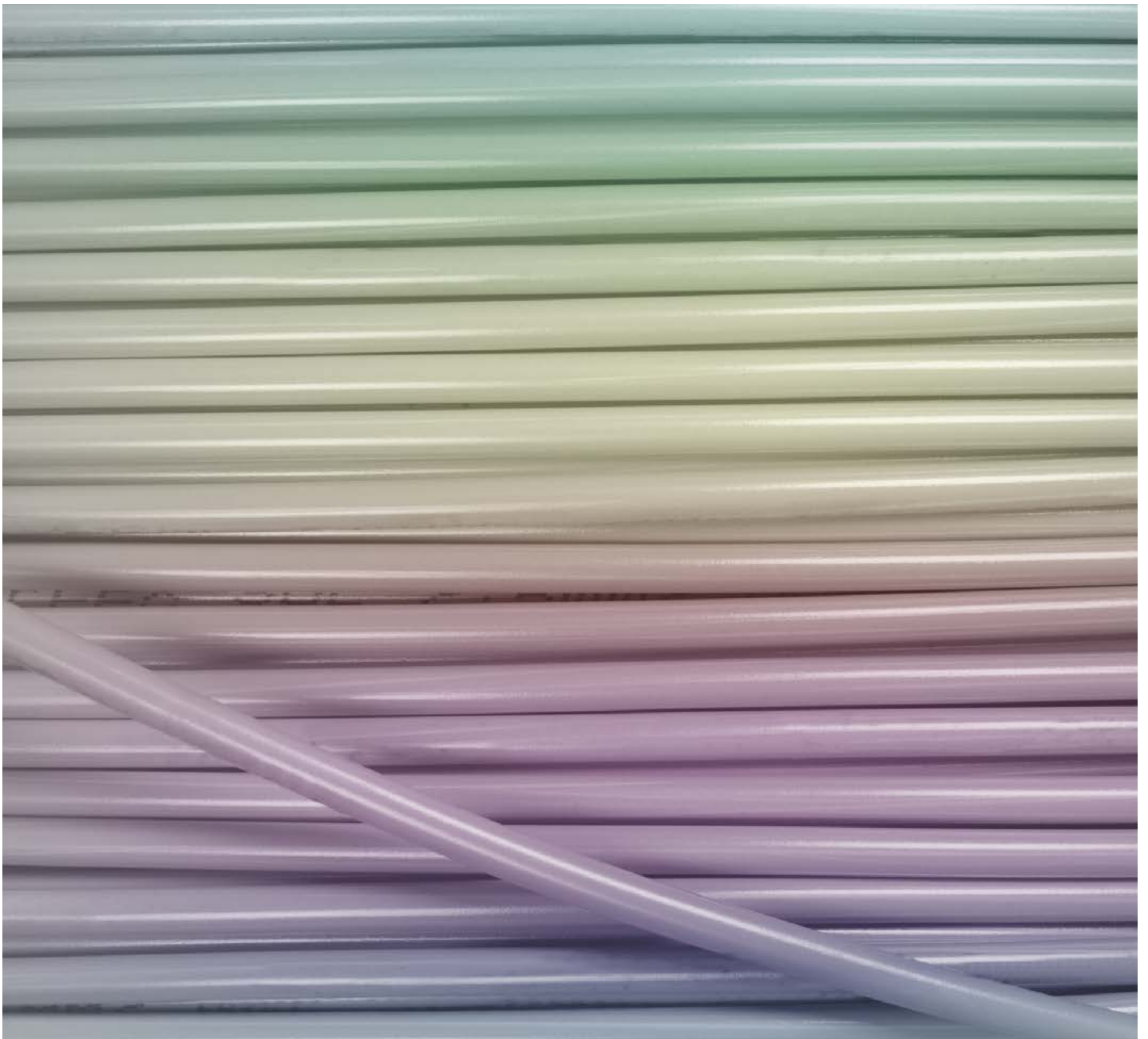


# Cables and multistrand wires Main catalog

**Cableline | Test & Measurement**

EN



# Long-term solutions – Expert connections



**Stäubli Electrical Connectors is a leading international manufacturer of high-quality electrical contacts and connector systems and solutions for industrial applications. We are part of the Stäubli mechatronics group, the technology leader in connection solutions, robotics and textile machinery.**

### **Pioneering contact technology for increased efficiency**

The entire Stäubli Electrical Connectors product range meets market expectations for high performance, the highest number of mating cycles, and long-lasting reliability for safe, durable operation. Our proven **MULTILAM technology** is ideal for all types of connections in industrial applications. Customers in the **power transmission and**

Stäubli develops, produces, sells and services products for markets with the highest productivity and safety standards. As recognized specialists, our focus is always on solutions and customers. Many new developments got their start here and are now becoming established as worldwide standards.

**distribution** sector rely on our consistent, loss-free transmission performance in all voltage ranges. The **automotive industry** depends on our high-efficiency connections for spot-welding applications in production lines. Harsh conditions in the **transportation sector** require high vibration resistance, maximum reliability, and compact design. These attributes are vitally important for railway and e-mobility applications. The safety

Our customers depend on our expertise and our active support, even when dealing with unusual challenges. With Stäubli, you're entering into a long-term partnership built on reliability, dedication, and exceptional quality in both products and services.

and reliability of our products are essential for **test and measurement technology**.

In the growing field of **alternative energy**, our products have been setting standards since the 1990s. About half of the solar energy generated worldwide is transmitted through safe, long-lasting, high-performance Stäubli connectors.

# Applications and advantages



**Stäubli Electrical Connectors looks back on years of experience in the production of multi-stranded wires with PVC, silicone and TPE insulating materials.**

Our multi-stranded wires are based on super-fine, bright-soft electrolytic copper strands. Depending on the cross section, these may consist of hundreds or even

thousands of individual wires, the majority with a diameter between 0.05 mm and 0.10 mm, stranded in a short twist.

The resulting high number of windings in combination with highly elastic insulating materials creates finished leads with an exceptional flexibility. Through the selection and combination of the finest raw materials, as well as the constant modernization

of our production facilities, the range of multi-stranded wires has been extended over the years and adapted to the latest technical requirements and standards.

# Ordering information regarding our multistrand wires

We sell our multi-strand wires on reels of various sizes, relative to the types of wire (see page 7).

For our standard order quantity, 100 metres, please order our 100 reel (order number 6X.XXXX-100\*). For longer wires, please order our 999 reel (order number 6X.XXXX-999\*). When ordering, please add

the order number of the desired wire to the respective order number and replace the asterisk with the two-digit color code.

Delivery of wires below the standard order quantity is only possible on request.

## General information

### Colour code

For those items available in various colours, replace the asterisk "\*" with the appropriate colour code.

20 green-yellow	26 violet
21 black	27 brown
22 red	28 grey
23 blue	29 white
24 yellow	33 transparent
25 green	34 natural

### Copyright

The use of this catalogue for any other purpose, in whatever form, without our prior written consent is not permitted.

### RoHS ready

Directive 2011/65/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

### Changes / Provisos

All data, illustrations and drawings in the catalogue have been carefully checked. They are in accordance with our experience to date, but no responsibility can be accepted for errors. We also reserve the right to make modifications for design and safety reasons. When designing equipment incorporating our components, it is therefore advisable not to rely solely on the data in the catalogue but to consult us to make sure this information is up to date. We shall be pleased to advise you.

# PVC Insulated Multistrand Wires

## Insulating Material PVC

### General characteristics

Good electrical properties with medium to good flexibility and good age resistance.

### Resistance to environmental influences

Medium to good UV resistance depending on colour.

### Typical application

Universal use for test leads and wiring with medium mechanical stress and a good cost-benefit ratio.

### Used for the following wire types

FlexiVolt..., FlexiStrom..., FLEXI-...

Technical specifications	
Temperature range (permanent, fully flexible)	-10 °C ... +70 °C
Maximum elongation	280 %
Tear strength	15 N/mm <sup>2</sup>
Hardness	70 Shore A

## FlexiVolt-E

Highly flexible basic insulated stranded wire.

### Typical Application

Internal wiring of mobile components under moderate mechanical stress. Highly flexible connecting leads for low-voltage applications in the laboratory field.



Order No.	Type	Nominal cross section	Strand design	Weight of cable	Conductor diameter	Thickness insulation wall	Outer diameter	Rated voltage	Test voltage	Rated current	Certification marks	*Colours
	PVC	mm <sup>2</sup>	n x Ø mm	kg/km	mm	mm	mm	V	V AC	A		
60.7001-□*	FLEXI-E 0,10	0,10	26 x 0,07	1,8	0,40	0,30	1,0	150	2000	2		21 22 23 24 25 29
60.7002-□*	FLEXI-E 0,15	0,15	39 x 0,07	3,5	0,50	0,50	1,5	500	2200	4		21 22 23 25
60.7041-□*	FLEXI-E/HK 0,17	0,17	84 x 0,05	3,2	0,52	0,40	1,4	50	600	4		21 22 23
60.7013-□*	FLEXI-E/HK 0,25	0,25	129 x 0,05	3,9	0,70	0,35	1,4	300	2000	6		21 22 23 24 25 29
60.7003-□*	FLEXI-E 0,25	0,25	66 x 0,07	4,8	0,65	0,50	1,7	500	2200	6		21 22 23 24 25 29
60.7005-□*	FLEXI-E/HK 0,50	0,50	256 x 0,05	8,3	1,0	0,55	2,1	500	2200	10		21 22 23 24 25 27 28 29
60.7004-□*	FLEXI-E 0,50	0,50	129 x 0,07	8,3	0,90	0,60	2,1	500	2200	10		21 22 23 24 25 29
60.7006-□*	FLEXI-E 0,75	0,75	196 x 0,07	11	1,25	0,55	2,3	500	2200	15		21 22 23 24
60.7009-□*	FLEXI-E/HK 1,0	1,0	511 x 0,05	14	1,5	0,60	2,7	750	3500	19		20 21 22 23 24 29
60.7008-□*	FLEXI-E 1,0	1,0	259 x 0,07	15	1,4	0,65	2,7	750	3500	19		20 21 22 23 24
60.7010-□*	FLEXI-E 1,5	1,5	392 x 0,07	20	1,7	0,65	3,0	750	3500	24		20 21 22 23
60.7012-□*	FLEXI-E 2,5	2,5	651 x 0,07	32	2,4	0,60	3,6	750	3500	32		20 21 22 23 24 25 29



● Staubli Units    ○ Representatives/Agents

# Global presence of the Staubli Group

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