

Архангельск (8182)63-90-72  
Астана (7172)727-132  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89  
Иваново (4932)77-34-06

Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Липецк (4742)52-20-81  
Киргизия (996)312-86-26-47

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Казахстан (772)734-952-31

Пермь (342)205-81-47  
Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Россия (495)268-04-70

Сургут (3462)77-98-35  
Тверь (4822)63-31-35  
Томск (3822)98-41-53  
Тула (4872)74-02-29  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Ярославль (4852)69-52-93

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## Easy. Flexible. Efficient Wire Processing Center



WORKPLACE  
SOLUTIONS

**Weidmüller** 

## Cable assembly with maximum efficiency

The highly flexible Wire Processing Center (WPC)

In times of full order books and a lackage of specialists a key succes factor is to optimize the value adding processes. Being faster, being better and being more profitable are clear differentiation factors in this environmental situation - also applicable for the panel building sector. Digitalisation and automation are becoming more and more important succes drivers.

The Wire Processing Center is a modular and highly flexible cable confectioning system consisting different of cable processing machines and industrial printers. The application software running on the touch display is steering the devices that are interconnected with interfaces.

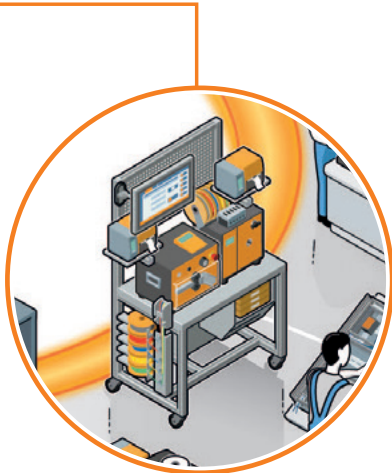
The WPC is offering a maximum level of flexibility, giving multiple options to implement the system in a smart way into any work process (e.g. different options for data implementation, stand-alone function of single devices or integration of further printing systems). Projects can be mastered easy, flexible and efficient.

### Special features:

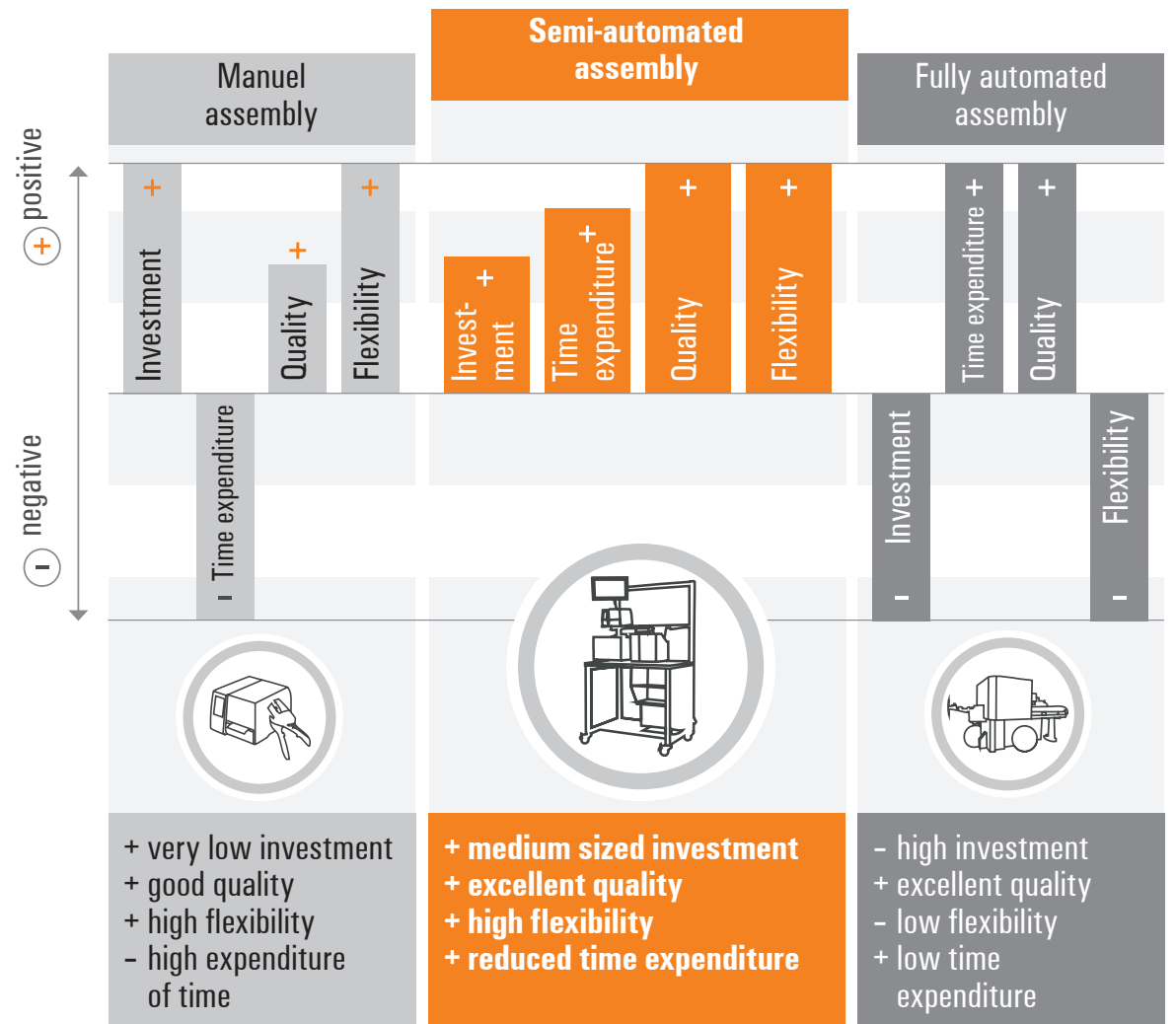
- Software-controlled processing of individual cable assembly jobs
- Flexible use options through the stand-alone mode of the devices
- Step-by-step structure to the system approach
- Highest quality through machine processing steps
- Intuitive operation
- Multiple input options
- Easy enrichment of ECAD data

### Competitive landscape around the cable confectioning process

The Wire Processing Center can be integrated into existing manufacturing processes and offers a maximum level of flexibility. Panel builders benefit from significant time savings und achieve excellent quality results. Short-term changes can be easily done directly at the WPC station. A very useful feature for the daily business that is creating extra efficiency.



By choosing, you have a powerful partner at your side who is supporting with well-matching within the workshop in all different phases. Based on longterm practical experience all around the control cabinet construction Weidmueller offers a comprehensive portfolio. Out of this you can effectively accelerate your processes and in parallel increase your quality standards. In close collaboration with our customers, we are continuously developing new software features for the WPC and strive to implement further hardware components as well. Moving forward with this systems approach, the flexibility and the related effectiveness are going to completely new dimensions.



A graphic showing an orange circle with the text "80%" inside, and the text "Efficiency increase up to" curved around the top of the circle.

## The Wire Processing Center in detail

### Consistent system for semi-automated cable assembly

The modular WPC combines all advantages of the individual components such as cable processing machines and industrial printers in a holistic, process-oriented approach. Thus creating significant value adding benefits for the panel builders.

**15" touch display**

Illustration of software-driven job processing, incl. intuitive handling

### Simple editing or adding of orders

through different user profiles with different access rights

### Stand-alone function of all devices

all machines and printers can be used in its single functionality

### Modular system with highest degree of flexibility

instant use in systems approach or building up step by step - starting with single device extended later the systems approach

## Different cable feeding options

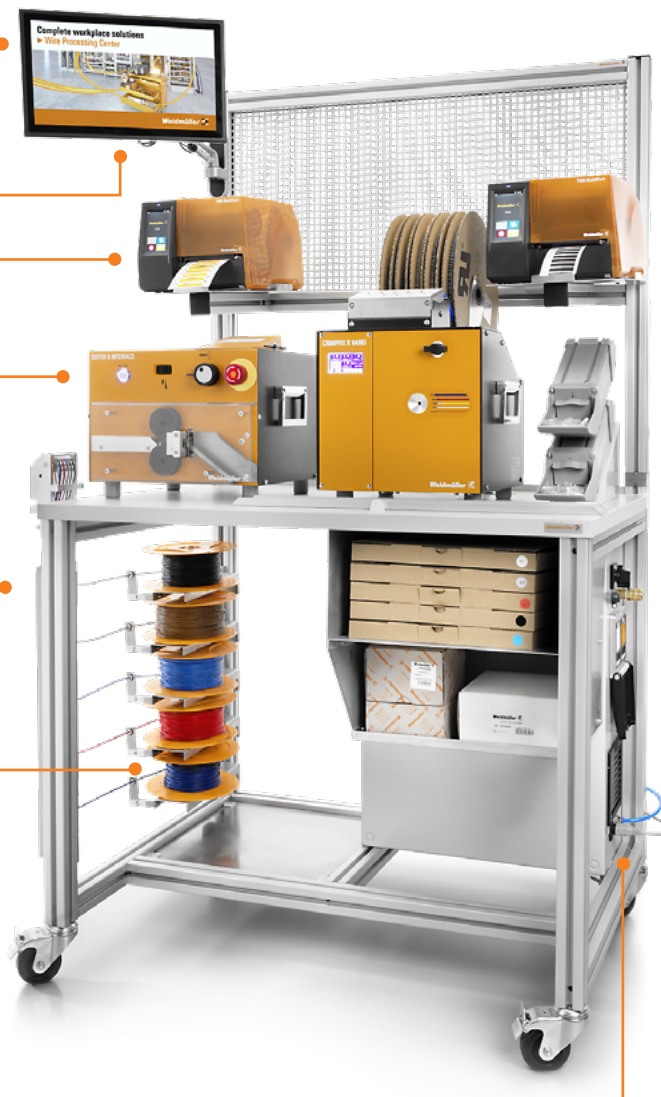
suitable for cable from reel or carton boxes

### Mobile workstation

moving to different places within the production facility

## Further customizing options

thanks to the open profile system and additional connections for USB, mains and compressed air



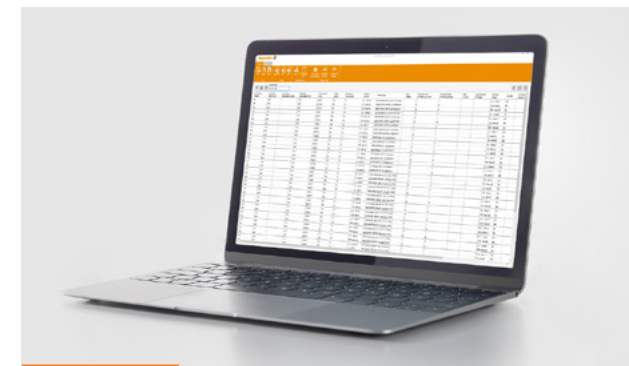
## High flexibility with consistently high quality

The WPC is distinguished by its modular structure and flexibility. All of the individual devices can be used at any time in their specific functions in stand-alone mode or even purchased individually and upgraded to the system approach at a later point in time. The intuitive software makes it very easy for users to edit and now add to individual jobs.



### Intelligent user guidance and easy operation

The individual devices of the WPC communicate with the WPC application software via the implemented interfaces. When the job starts, the respective data is transferred to the devices at the same time. The target state of the finished wire is illustrated for the user on the touch screen.



## Planning software WPC tool

With the planning software WPC tool, data can be read and edited in different ways (manually, CSV files, Eplan and E3 files). Transmission to the Wire Processing Center is via the network or a USB stick.



### Customizing and stockpiling

The profile system offers very flexible options for optimal integration of the WPC into various processes. Various cable feeds and an integrated shelving system for consumables round off the overall package.

# WPC tool

## Planning software with integrated consistency check

The planning software WPC tool is the link between data planning and processing in production. The eCAD data can be imported into the WPC tool in different ways. In addition to manual entry, the data can also be read directly from Eplan or Zuken E3. There is also the option to transfer the CSV files (also generated from other eCAD programs) to the planning software.

Weidmüller provides a suitable template with a corresponding arrangement of the individual parameters. This can also be used to process data from existing Excel files. Before the data is transferred to the WPC (via the network or a USB stick), a consistency check is carried out which checks all core parameters, such as cable length, wire end processing, number and labelling data, for completeness. This ensures reliable processing of the cable jobs on the WPC.

**Multiple import options** (Eplan, Zuken E3, CSV, Excel, manual)

**Easy to edit and add to eCAD data**

**Consistency check before transfer to the WPC**

**Data synchronisation during network operation**  
the process progress of the WPC can be monitored on the WPC tool



# Wire Processing Center

## The flexible all-rounder with a wide variety of possible applications for use

The Wire Processing Center (WPC) combines the highest quality standards and efficiency gains with low cost and time expenditure. Software-controlled, semi-automated cable assembly speeds up the production process significantly and guarantees the highest quality requirements. Consistent data consistency, including consistency checks in the WPC tool, automated processing in the one-piece flow concept on the WPC itself, as well as outstanding flexibility through the use of all individual devices in stand-alone mode are the basis for efficiency gains.



### Excellent quality

The WPC offers consistently high quality through the use of semi-automated machines.



### High flexibility

Individual components of the WPC can be removed easily and quickly from the process sequence and used with their individual functions in stand-alone mode.



### Efficiency time savings

The use of automatic machines decreases processing times and thus contributes to a general increase in manufacturing process efficiency.

# Semi automation in panel building

## We talk to André Rose of BN Automation about using the Wire Processing Center

Today there is still usually a lot of manual work involved in production processes for control and panel construction. The increase in the level of automation and the exploitation of opportunities in today's digitalisation approaches offer a huge boost to increase efficiency. In the area of installation, the many manual activities in mechanical cable processing account for a large proportion of working hours.



There are fully-automated systems used for mass production which usually only pay off from large unit numbers. For the project business of the panel builder, these are rarely worthwhile. Therefore, many companies look for profitable, assisted solutions. As was the case for BN Automation AG from Thüringen, one of the leading engineering companies in the process industry. BN Automation AG specialises in automation, data solutions and IT.

„We had spent a long time looking for assisted solutions for cable assembly”, explains André Rose, Head of Panel Building at BN Automation AG. „Through various previous projects at our company we have been able to drive forward digitalisation in panel building and gradually implement it in production. But we were still lacking a solution for optimising the time-consuming work steps in cable processing,” Rose remembers. „The cables were still more or less assembled, stripped and crimped by hand. This is why we were looking for a guided solution that we could use to perform the entire process in one work procedure.”

The bridge between full automation and pure manual work is formed by Weidmüller's Wire Processing Center (WPC). The WPC connects proven individual components to a modular assembly system consisting of cutting machines, automatic strippers and crimpers as well as industrial printers.

**„Flexibility is a top priority for us. We need to be able to assemble wires, cables and cross-sections in a short time and between projects. And this is exactly what the WPC does for us.”**

- André Rose, Head of Panel Building at BN Automation AG

BN Automation AG were also impressed by the flexible options for use: In particular the possibility to use all WPC components in stand-alone mode in their own individual functions. Even short-term changes, which are common in the project business, can be performed directly on the WPC. The user has total flexibility to switch between pure manual operation and the software-controlled process sequence in the system approach at any time. Depending on the situation, the user can react quickly and with maximum flexibility to the ideal process sequence. The software WPC tool guarantees optimal data consistency. This way, data can be simply transferred from the planning phase to the WPC.

By using the WPC, quality has been improved compared to the cables that were previously laboriously assembled by hand. Whether in the morning as work starts or in the evening during the night shift, the quality of the work results can be kept constantly high throughout the entire working day. „By introducing the WPC, we have significantly improved the processes in production”, adds Rose „We can plan better with our resources and specialists. With the modern workplace and digitally-guided work steps, we no longer need to involve our experts in cable assembly, instead they can concentrate on more important projects.”

BN Automation is not a series manufacturer of panels, instead each panel it produces is unique. Each one has a different structure and contains different components and types of wires and cables.

Rose gave particular praise to the collaborative partnership: „The colleagues at Weidmüller supported us throughout the entire development process. Naturally there were teething problems but we were always able to solve these together. We could contribute our feedback, which Weidmüller immediately listened to and integrated into the project – we were really impressed by this.”



### Wire Processing Center

#### Technical data

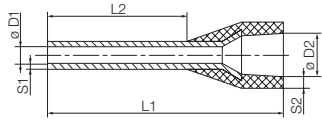
| Crimping length | Cross-section range        | Electrical connection          | Compressed-air connection |
|-----------------|----------------------------|--------------------------------|---------------------------|
| 8/10 mm         | 0.5 - 2.5 mm² (~AWG 20-14) | 100 - 240 V / 50/60 Hz / 16 VA | 5.5 bar                   |

#### Ordering data

|  | Products                           | Description of article                                                                                                             | Order No.  |
|--|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------|
|  | Wire Processing Center (WPC)       | Modular system for cable assembly with integrated software (workshop trolley, Cutfix 8 interface, Crimpfix R VARIO, THM MultiMark) | 2634120000 |
|  | Wire Processing Center (WPC) 115 V | Modular system for cable assembly with integrated software (workshop trolley, Cutfix 8 interface, Crimpfix R VARIO, THM MultiMark) | 2728490000 |

#### Ordering data

|  | Products       | Description of article                                                                                  | Order No.  |
|--|----------------|---------------------------------------------------------------------------------------------------------|------------|
|  | WPC WAGON      | Workshop trolley (empty trolley with display, panel, shelving system for wire-end ferrules and markers) | 2634140000 |
|  | WPC WAGON 115V | Workshop trolley (empty trolley with display, panel, shelving system for wire-end ferrules and markers) | 2728480000 |
|  | WPC KBZF A     | Cable entry Option A                                                                                    | 2666380000 |
|  | WPC KBZF B     | Cable entry Option B                                                                                    | 2666390000 |
|  | WPC GFSN       | Gripper tray station                                                                                    | 2666400000 |



- Polypropylene conical entry funnel
- Heat-resistant up to 105°C

For conductors from 0.5-2.5 mm² (AWG 20-14) Material E-Cu, electro-galvanised  
Dimensional tolerance acc. to DIN 46228 Part 4

### Weidmüller Colour code: reel of linked wire-end ferrules

#### Ordering data for standard plastic collars

| Type               | Ø mm² | AWG    | L1    | L2 | D1  | D2  | S1   | S2   | Stripping length | Colour   | Qty. | Order No.  |
|--------------------|-------|--------|-------|----|-----|-----|------|------|------------------|----------|------|------------|
| H0,5/14 OR BD GSP  | 0.5   | AWG 20 | 14.00 | 8  | 1   | 2.6 | 0.15 | 0.25 | 10               | ● orange | 5000 | 9005810000 |
| H0,5/16 OR BD GSP  | 0.5   | AWG 20 | 16.00 | 10 | 1   | 2.6 | 0.15 | 0.25 | 12               | ● orange | 5000 | 1476010000 |
| H0,75/14 W BD GSP  | 0.75  | AWG 18 | 14.00 | 8  | 1.2 | 2.8 | 0.15 | 0.25 | 10               | ○ white  | 5000 | 9005820000 |
| H0,75/16 W BD GSP  | 0.75  | AWG 18 | 16.00 | 10 | 1.2 | 2.8 | 0.15 | 0.25 | 12               | ○ white  | 5000 | 1476030000 |
| H1,0/14 GE BD GSP  | 1     | AWG 17 | 14.00 | 8  | 1.4 | 3   | 0.15 | 0.25 | 10               | ● yellow | 5000 | 9005830000 |
| H1,0/16 GE BD GSP  | 1     | AWG 17 | 16.00 | 10 | 1.4 | 3   | 0.15 | 0.25 | 12               | ● yellow | 5000 | 1476040000 |
| H1,5/14 R BD GSP   | 1.5   | AWG 16 | 14.00 | 8  | 1.7 | 3.5 | 0.15 | 0.25 | 10               | ● red    | 5000 | 9005840000 |
| H1,5/16 R BD GSP   | 1.5   | AWG 16 | 16.00 | 10 | 1.7 | 3.5 | 0.15 | 0.25 | 12               | ● red    | 5000 | 1476050000 |
| H2,5/14D BL BD GSP | 2.5   | AWG 14 | 14.00 | 8  | 2.2 | 4.2 | 0.15 | 0.25 | 10               | ● blue   | 3000 | 9005850000 |
| H2,5/16D BL BD GSP | 2.5   | AWG 14 | 16.00 | 10 | 2.2 | 4.2 | 0.15 | 0.25 | 12               | ● blue   | 3000 | 1476060000 |

#### Ordering data special sizes plastic collars

| Type               | Ø mm² | AWG    | L1 | L2 | D1  | D2  | S1   | S2   | Stripping length | Colour   | Qty. | Order No.  |
|--------------------|-------|--------|----|----|-----|-----|------|------|------------------|----------|------|------------|
| H0,5/14S OR GSP    | 0.5   | AWG 20 | 14 | 8  | 1   | 2.9 | 0.15 | 0.25 | 10               | ● orange | 4000 | 2528550000 |
| H0,5/16S OR BD GSP | 0.5   | AWG 20 | 16 | 10 | 1   | 2.9 | 0.15 | 0.25 | 12               | ● orange | 4000 | 2604620000 |
| H0,75/14S W GSP    | 0.75  | AWG 18 | 14 | 8  | 1.2 | 3.4 | 0.15 | 0.25 | 10               | ○ white  | 4000 | 2528560000 |
| H0,75/16S W BD GSP | 0.75  | AWG 18 | 16 | 10 | 1.2 | 3.4 | 0.15 | 0.25 | 12               | ○ white  | 4000 | 2604640000 |
| H1,0/14S GE GSP    | 1     | AWG 17 | 14 | 8  | 1.4 | 3.5 | 0.15 | 0.25 | 10               | ● yellow | 4000 | 2528570000 |
| H1,0/16S GE BD GSP | 1     | AWG 17 | 16 | 10 | 1.4 | 3.5 | 0.15 | 0.25 | 12               | ● yellow | 4000 | 2604680000 |
| H1,5/14S R GSP     | 1.5   | AWG 16 | 14 | 8  | 1.7 | 4   | 0.15 | 0.25 | 10               | ● red    | 4000 | 2528580000 |
| H1,5/16S R BD GSP  | 1.5   | AWG 16 | 16 | 10 | 1.7 | 4   | 0.15 | 0.25 | 12               | ● red    | 4000 | 2604700000 |

More technical details and further labelling systems can be found in our online catalogue.



Let's connect.



DIN Colour code: reel of linked wire-end ferrules

Ordering data for standard plastic collars

| Type                | Ø mm² | AWG    | L1    | L2 | D1  | D2  | S1   | S2   | Stripping length | Colour  | Qty. | Order No.  |
|---------------------|-------|--------|-------|----|-----|-----|------|------|------------------|---------|------|------------|
| H0,5/14D W BD GSP   | 0.5   | AWG 20 | 14.00 | 8  | 1   | 2.6 | 0.15 | 0.25 | 10               | ○ white | 5000 | 9005860000 |
| H0,5/16D W BD GSP   | 0.5   | AWG 20 | 16.00 | 10 | 1   | 2.6 | 0.15 | 0.25 | 12               | ○ white | 5000 | 1476070000 |
| H0,75/14D GR        | 0.75  | AWG 18 | 14.00 | 8  | 1.2 | 2.8 | 0.15 | 0.25 | 10               | ● grey  | 5000 | 9005870000 |
| H0,75/16D GR BD GSP | 0.75  | AWG 18 | 16.00 | 10 | 1.2 | 2.8 | 0.15 | 0.25 | 12               | ● grey  | 5000 | 1476080000 |
| H1,0/14D R BD GSP   | 1     | AWG 17 | 14.00 | 8  | 1.4 | 3   | 0.15 | 0.25 | 10               | ● red   | 5000 | 9005880000 |
| H1,0/16D R BD GSP   | 1     | AWG 17 | 16.00 | 10 | 1.4 | 3   | 0.15 | 0.25 | 12               | ● red   | 5000 | 1476090000 |
| H1,5/14D SW BD GSP  | 1.5   | AWG 16 | 14.00 | 8  | 1.7 | 3.5 | 0.15 | 0.25 | 10               | ● black | 5000 | 9005890000 |
| H1,5/16D SW BD GSP  | 1.5   | AWG 16 | 16.00 | 10 | 1.7 | 3.5 | 0.15 | 0.25 | 12               | ● black | 5000 | 1476100000 |
| H2,5/14D BL BD GSP  | 2.5   | AWG 14 | 14.00 | 8  | 2.2 | 4.2 | 0.15 | 0.25 | 10               | ● blue  | 3000 | 9005850000 |
| H2,5/16D BL BD GSP  | 2.5   | AWG 14 | 16.00 | 10 | 2.2 | 4.2 | 0.15 | 0.25 | 12               | ● blue  | 3000 | 1476060000 |

Ordering data special sizes plastic collars

| Type                | Ø mm² | AWG    | L1    | L2 | D1  | D2  | S1   | S2   | Stripping length | Colour  | Qty. | Order No.  |
|---------------------|-------|--------|-------|----|-----|-----|------|------|------------------|---------|------|------------|
| H0,5/14D W BD GSP   | 0.5   | AWG 20 | 14.00 | 8  | 1   | 2.6 | 0.15 | 0.25 | 10               | ○ white | 5000 | 9005860000 |
| H0,5/16D W BD GSP   | 0.5   | AWG 20 | 16.00 | 10 | 1   | 2.6 | 0.15 | 0.25 | 12               | ○ white | 5000 | 1476070000 |
| H0,75/14D GR        | 0.75  | AWG 18 | 14.00 | 8  | 1.2 | 2.8 | 0.15 | 0.25 | 10               | ● grey  | 5000 | 9005870000 |
| H0,75/16D GR BD GSP | 0.75  | AWG 18 | 16.00 | 10 | 1.2 | 2.8 | 0.15 | 0.25 | 12               | ● grey  | 5000 | 1476080000 |
| H1,0/14D R BD GSP   | 1     | AWG 17 | 14.00 | 8  | 1.4 | 3   | 0.15 | 0.25 | 10               | ● red   | 5000 | 9005880000 |
| H1,0/16D R BD GSP   | 1     | AWG 17 | 16.00 | 10 | 1.4 | 3   | 0.15 | 0.25 | 12               | ● red   | 5000 | 1476090000 |
| H1,5/14D SW BD GSP  | 1.5   | AWG 16 | 14.00 | 8  | 1.7 | 3.5 | 0.15 | 0.25 | 10               | ● black | 5000 | 9005890000 |
| H1,5/16D SW BD GSP  | 1.5   | AWG 16 | 16.00 | 10 | 1.7 | 3.5 | 0.15 | 0.25 | 12               | ● black | 5000 | 1476100000 |
| H2,5/14D BL BD GSP  | 2.5   | AWG 14 | 14.00 | 8  | 2.2 | 4.2 | 0.15 | 0.25 | 10               | ● blue  | 3000 | 9005850000 |
| H2,5/16D BL BD GSP  | 2.5   | AWG 14 | 16.00 | 10 | 2.2 | 4.2 | 0.15 | 0.25 | 12               | ● blue  | 3000 | 1476060000 |

Special Colour code: reel of linked wire-end ferrules

Ordering data for standard plastic collars

| Type                | Ø mm² | AWG    | L1    | L2 | D1  | D2  | S1   | S2   | Stripping length | Colour       | Qty. | Order No.  |
|---------------------|-------|--------|-------|----|-----|-----|------|------|------------------|--------------|------|------------|
| H0,5/14D W BD GSP   | 0.5   | AWG 20 | 14.00 | 8  | 1   | 2.6 | 0.15 | 0.25 | 10               | ○ white      | 5000 | 9005860000 |
| H0,5/16D W BD GSP   | 0.5   | AWG 20 | 16.00 | 10 | 1   | 2.6 | 0.15 | 0.25 | 12               | ○ white      | 5000 | 1476070000 |
| H0,75/14T BL BD GSP | 0.75  | AWG 18 | 14.00 | 8  | 1.2 | 2.8 | 0.15 | 0.25 | 10               | ● light blue | 5000 | 9005900000 |
| H0,75/16T BL BD GSP | 0.75  | AWG 18 | 16.00 | 10 | 1.2 | 2.8 | 0.15 | 0.25 | 12               | ● light blue | 5000 | 1476110000 |
| H1,0/14D R BD GSP   | 1     | AWG 17 | 14.00 | 8  | 1.4 | 3   | 0.15 | 0.25 | 10               | ● red        | 5000 | 9005880000 |
| H1,0/16D R BD GSP   | 1     | AWG 17 | 16.00 | 10 | 1.4 | 3   | 0.15 | 0.25 | 12               | ● red        | 5000 | 1476090000 |
| H1,5/14D SW BD GSP  | 1.5   | AWG 16 | 14.00 | 8  | 1.7 | 3.5 | 0.15 | 0.25 | 10               | ● black      | 5000 | 9005890000 |
| H1,5/16D SW BD GSP  | 1.5   | AWG 16 | 16.00 | 10 | 1.7 | 3.5 | 0.15 | 0.25 | 12               | ● black      | 5000 | 1476100000 |
| H2,5/14T GR BD GSP  | 2.5   | AWG 14 | 14.00 | 8  | 2.2 | 4.2 | 0.15 | 0.25 | 10               | ● grey       | 3000 | 9005910000 |
| H2,5/16T GR BD GSP  | 2.5   | AWG 14 | 16.00 | 10 | 2.2 | 4.2 | 0.15 | 0.25 | 12               | ● grey       | 3000 | 1476120000 |

Ordering data special sizes plastic collars

| Type                  | Ø mm² | AWG    | L1 | L2 | D1  | D2  | S1   | S2   | Stripping length | Colour       | Qty. | Order No.  |
|-----------------------|-------|--------|----|----|-----|-----|------|------|------------------|--------------|------|------------|
| H0,5/14DS W GSP       | 0.5   | AWG 20 | 14 | 8  | 1   | 2.9 | 0.15 | 0.25 | 10               | ○ white      | 4000 | 2528590000 |
| H0,5/16DS W BD GSP    | 0.5   | AWG 20 | 16 | 10 | 1   | 2.9 | 0.15 | 0.25 | 12               | ○ white      | 4000 | 2604630000 |
| H0,75/14TS HB GSP     | 0.75  | AWG 18 | 14 | 8  | 1.2 | 3.4 | 0.15 | 0.25 | 10               | ● light blue | 4000 | 2528630000 |
| H0,75/16TS HBL BD GSP | 0.75  | AWG 18 | 16 | 10 | 1.2 | 3.4 | 0.15 | 0.25 | 12               | ● light blue | 4000 | 2604660000 |
| H1,0/14DS R GSP       | 1     | AWG 17 | 14 | 8  | 1.4 | 3.5 | 0.15 | 0.25 | 10               | ● red        | 4000 | 2528610000 |
| H1,0/16DS R BD GSP    | 1     | AWG 17 | 16 | 10 | 1.4 | 3.5 | 0.15 | 0.25 | 12               | ● red        | 4000 | 2604690000 |
| H1,5/14DS SW GSP      | 1.5   | AWG 16 | 14 | 8  | 1.7 | 4   | 0.15 | 0.25 | 10               | ● black      | 4000 | 2528620000 |
| H1,5/16DS SW BD GSP   | 1.5   | AWG 16 | 16 | 10 | 1.7 | 4   | 0.15 | 0.25 | 12               | ● black      | 4000 | 2604710000 |



Conductor markers TM-I

Technical data

| Material  | Temperature range | Fire class acc. to UL 94 | Order No.  | Type                |
|-----------|-------------------|--------------------------|------------|---------------------|
| Polyester | -40...150 °C      | HB                       | 2005080000 | RIBBON MM 76/360 SW |

Ordering data

| Type          | Height | Width | Colour   | Qty. | Order No.  |
|---------------|--------|-------|----------|------|------------|
| TM-I 12 MM BL | 12 mm  | 4 mm  | ● blue   | 2000 | 2005890000 |
| TM-I 12 MM GE | 12 mm  | 4 mm  | ● yellow | 2000 | 2005550000 |
| TM-I 12 MM RT | 12 mm  | 4 mm  | ● red    | 2000 | 2005730000 |
| TM-I 12 MM WS | 12 mm  | 4 mm  | ○ white  | 2000 | 2005440000 |
| TM-I 15 MM BL | 15 mm  | 4 mm  | ● blue   | 2000 | 2005910000 |
| TM-I 15 MM GE | 15 mm  | 4 mm  | ● yellow | 2000 | 2005580000 |
| TM-I 15 MM RT | 15 mm  | 4 mm  | ● red    | 2000 | 2005760000 |
| TM-I 15 MM WS | 15 mm  | 4 mm  | ○ white  | 2000 | 2005450000 |
| TM-I 18 MM BL | 18 mm  | 4 mm  | ● blue   | 2000 | 2005930000 |
| TM-I 18 MM GE | 18 mm  | 4 mm  | ● yellow | 2000 | 2005610000 |
| TM-I 18 MM RT | 18 mm  | 4 mm  | ● red    | 2000 | 2005790000 |
| TM-I 18 MM WS | 18 mm  | 4 mm  | ○ white  | 2000 | 2005470000 |
| TM-I 20 MM BL | 20 mm  | 4 mm  | ● blue   | 2000 | 2005950000 |
| TM-I 20 MM GE | 20 mm  | 4 mm  | ● yellow | 2000 | 2005640000 |
| TM-I 20 MM RT | 20 mm  | 4 mm  | ● red    | 2000 | 2005820000 |
| TM-I 20 MM WS | 20 mm  | 4 mm  | ○ white  | 2000 | 2005490000 |
| TM-I 23 MM BL | 23 mm  | 4 mm  | ● blue   | 2000 | 2005970000 |
| TM-I 23 MM GE | 23 mm  | 4 mm  | ● yellow | 2000 | 2005670000 |
| TM-I 23 MM RT | 23 mm  | 4 mm  | ● red    | 2000 | 2005850000 |
| TM-I 23 MM WS | 23 mm  | 4 mm  | ○ white  | 2000 | 2005510000 |
| TM-I 30 MM BL | 30 mm  | 4 mm  | ● blue   | 2000 | 2005990000 |
| TM-I 30 MM GE | 30 mm  | 4 mm  | ● yellow | 2000 | 2005700000 |
| TM-I 30 MM RT | 30 mm  | 4 mm  | ● red    | 2000 | 2005870000 |
| TM-I 30 MM WS | 30 mm  | 4 mm  | ○ white  | 2000 | 2005530000 |

Conductor markers WM

Technical data

| Material  | Temperature range | Fire class acc. to UL 94 | Order No.  | Type                |
|-----------|-------------------|--------------------------|------------|---------------------|
| Polyester | -40...150 °C      | HB                       | 2005080000 | RIBBON MM 76/360 SW |

Ordering data

| Type                  | Conductor O.D. | Printing area | Colour   | Qty. | Order No.  |
|-----------------------|----------------|---------------|----------|------|------------|
| WM 0/6 1.0-2.0 MM GE  | 1 - 2 mm       | 13 x 3.5 mm   | ● yellow | 2000 | 2006410000 |
| WM 0/6 1.0-2.0 MM WS  | 1 - 2 mm       | 13 x 3.5 mm   | ○ white  | 2000 | 2006330000 |
| WM 0/12 1.0-2.0 MM GE | 1 - 2 mm       | 22 x 3.5 mm   | ● yellow | 2000 | 2006250000 |
| WM 0/12 1.0-2.0 MM WS | 1 - 2 mm       | 22 x 3.5 mm   | ○ white  | 2000 | 2006170000 |
| WM 0/21 1.0-2.0 MM GE | 1 - 2 mm       | 7 x 3.5 mm    | ● yellow | 2000 | 2006090000 |
| WM 0/21 1.0-2.0 MM WS | 1 - 2 mm       | 7 x 3.5 mm    | ○ white  | 2000 | 2006010000 |
| WM 1/6 2.0-3.5 MM GE  | 2 - 3.5 mm     | 13 x 4.8 mm   | ● yellow | 2000 | 2006430000 |
| WM 1/6 2.0-3.5 MM WS  | 2 - 3.5 mm     | 13 x 4.8 mm   | ○ white  | 2000 | 2006350000 |
| WM 1/12 2.0-3.5 MM GE | 2 - 3.5 mm     | 22 x 4.8 mm   | ● yellow | 2000 | 2006270000 |
| WM 1/12 2.0-3.5 MM WS | 2 - 3.5 mm     | 22 x 4.8 mm   | ○ white  | 2000 | 2006190000 |
| WM 1/21 2.0-3.5 MM GE | 2 - 3.5 mm     | 7 x 4.8 mm    | ● yellow | 2000 | 2006110000 |
| WM 1/21 2.0-3.5 MM WS | 2 - 3.5 mm     | 7 x 4.8 mm    | ○ white  | 2000 | 2006030000 |
| WM 2/6 3.5-5.0 MM GE  | 3.5 - 5 mm     | 12 x 6.4 mm   | ● yellow | 2000 | 2006450000 |
| WM 2/6 3.5-5.0 MM WS  | 3.5 - 5 mm     | 12 x 6.4 mm   | ○ white  | 2000 | 2006370000 |
| WM 2/12 3.5-5.0 MM GE | 3.5 - 5 mm     | 22 x 6.4 mm   | ● yellow | 2000 | 2006290000 |
| WM 2/12 3.5-5.0 MM WS | 3.5 - 5 mm     | 22 x 6.4 mm   | ○ white  | 2000 | 2006210000 |
| WM 2/21 3.5-5.0 MM GE | 3.5 - 5 mm     | 7 x 6.4 mm    | ● yellow | 2000 | 2006130000 |
| WM 2/21 3.5-5.0 MM WS | 3.5 - 5 mm     | 7 x 6.4 mm    | ○ white  | 2000 | 2006050000 |



Shrink sleeves HS... 25.4 mm

Technical data

| Material  | Rate of shrinkage | Temperature range | recom. Shrinks. | Order No.  | Type                   |
|-----------|-------------------|-------------------|-----------------|------------|------------------------|
| Polyester | 3:1               | -55...135 °C      | 90 °C           | 2448880000 | RIBBON MM-HS 60/300 SW |

Ordering data

| Type               | Height  | Conductor O.D. | Colour   | Qty. | Order No.  |
|--------------------|---------|----------------|----------|------|------------|
| HS 0.8-2.4/25 MM W | 25.4 mm | 0.8 - 2.4 mm   | ○ white  | 2000 | 2437470000 |
| HS 0.8-2.4/25 MM Y | 25.4 mm | 0.8 - 2.4 mm   | ● yellow | 2000 | 2437480000 |
| HS 1.0-3.2/25 MM W | 25.4 mm | 1 - 3.2 mm     | ○ white  | 2000 | 2437510000 |
| HS 1.0-3.2/25 MM Y | 25.4 mm | 1 - 3.2 mm     | ● yellow | 2000 | 2437520000 |
| HS 1.6-4.8/25 MM W | 25.4 mm | 1.6 - 4.8 mm   | ○ white  | 2000 | 2437550000 |
| HS 1.6-4.8/25 MM Y | 25.4 mm | 1.6 - 4.8 mm   | ● yellow | 2000 | 2437560000 |
| HS 2.1-6.4/25 MM W | 25.4 mm | 2.1 - 6.4 mm   | ○ white  | 2000 | 2437630000 |
| HS 2.1-6.4/25 MM Y | 25.4 mm | 2.1 - 6.4 mm   | ● yellow | 2000 | 2437640000 |

Shrink sleeves HS... 50.8 mm

Technical data

| Material  | Rate of shrinkage | Temperature range | recom. Shrinks. | Order No.  | Type                   |
|-----------|-------------------|-------------------|-----------------|------------|------------------------|
| Polyester | 3:1               | -55...135 °C      | 90 °C           | 2448880000 | RIBBON MM-HS 60/300 SW |

Ordering data

| Type               | Height  | Conductor O.D. | Colour   | Qty. | Order No.  |
|--------------------|---------|----------------|----------|------|------------|
| HS 0.8-2.4/50 MM W | 50.8 mm | 0.8 - 2.4 mm   | ○ white  | 1000 | 2437490000 |
| HS 0.8-2.4/50 MM Y | 50.8 mm | 0.8 - 2.4 mm   | ● yellow | 1000 | 2437500000 |
| HS 1.0-3.2/50 MM W | 50.8 mm | 1 - 3.2 mm     | ○ white  | 1000 | 2437530000 |
| HS 1.0-3.2/50 MM Y | 50.8 mm | 1 - 3.2 mm     | ● yellow | 1000 | 2437540000 |
| HS 1.6-4.8/50 MM W | 50.8 mm | 1.6 - 4.8 mm   | ○ white  | 1000 | 2437570000 |
| HS 1.6-4.8/50 MM Y | 50.8 mm | 1.6 - 4.8 mm   | ● yellow | 1000 | 2437580000 |
| HS 2.1-6.4/50 MM W | 50.8 mm | 2.1 - 6.4 mm   | ○ white  | 1000 | 2437650000 |
| HS 2.1-6.4/50 MM Y | 50.8 mm | 2.1 - 6.4 mm   | ● yellow | 1000 | 2437660000 |

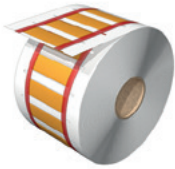
Shrink sleeves HS-HF... 25.4 mm free from halogens

Technical data

| Material    | Rate of shrinkage | Temperature range | recom. Shrinks. | Order No.  | Type                   |
|-------------|-------------------|-------------------|-----------------|------------|------------------------|
| Polyolefine | 2:1               | -55...105 °C      | 90 °C           | 2448880000 | RIBBON MM-HS 60/300 SW |

Ordering data

| Type                  | Height  | Conductor O.D. | Colour   | Qty. | Order No.  |
|-----------------------|---------|----------------|----------|------|------------|
| HS-HF 1.2-2.4/25 MM W | 25.4 mm | 1.2 - 2.4 mm   | ○ white  | 2000 | 2437830000 |
| HS-HF 1.2-2.4/25 MM Y | 25.4 mm | 1.2 - 2.4 mm   | ● yellow | 2000 | 2437840000 |
| HS-HF 1.6-3.2/25 MM W | 25.4 mm | 1.6 - 3.2 mm   | ○ white  | 2000 | 2437870000 |
| HS-HF 1.6-3.2/25 MM Y | 25.4 mm | 1.6 - 3.2 mm   | ● yellow | 2000 | 2437880000 |
| HS-HF 2.4-4.8/25 MM W | 25.4 mm | 2.4 - 4.8 mm   | ○ white  | 2000 | 2437990000 |
| HS-HF 2.4-4.8/25 MM Y | 25.4 mm | 2.4 - 4.8 mm   | ● yellow | 2000 | 2438000000 |
| HS-HF 3.2-6.4/25 MM W | 25.4 mm | 3.2 - 6.4 mm   | ○ white  | 2000 | 2438040000 |
| HS-HF 3.2-6.4/25 MM Y | 25.4 mm | 3.2 - 6.4 mm   | ● yellow | 2000 | 2438050000 |



Shrink sleeves HS-HF... 50.8 mm free from halogens

Technical data

| Material    | Rate of shrinkage | Temperature range | recom. Shrinks. | Order No.  | Type                   |
|-------------|-------------------|-------------------|-----------------|------------|------------------------|
| Polyolefine | 2:1               | -55...105 °C      | 90 °C           | 2448880000 | RIBBON MM-HS 60/300 SW |

Ordering data

| Type                  | Height  | Conductor O.D. | Colour   | Qty. | Order No.  |
|-----------------------|---------|----------------|----------|------|------------|
| HS-HF 1.2-2.4/50 MM W | 50.8 mm | 1.2 - 2.4 mm   | ○ white  | 1000 | 2437850000 |
| HS-HF 1.2-2.4/50 MM Y | 50.8 mm | 1.2 - 2.4 mm   | ● yellow | 1000 | 2437860000 |
| HS-HF 1.6-3.2/50 MM W | 50.8 mm | 1.6 - 3.2 mm   | ○ white  | 1000 | 2437890000 |
| HS-HF 1.6-3.2/50 MM Y | 50.8 mm | 1.6 - 3.2 mm   | ● yellow | 1000 | 2437900000 |
| HS-HF 2.4-4.8/50 MM W | 50.8 mm | 2.4 - 4.8 mm   | ○ white  | 1000 | 2438010000 |
| HS-HF 2.4-4.8/50 MM Y | 50.8 mm | 2.4 - 4.8 mm   | ● yellow | 1000 | 2438020000 |
| HS-HF 3.2-6.4/50 MM W | 50.8 mm | 3.2 - 6.4 mm   | ○ white  | 1000 | 2438060000 |
| HS-HF 3.2-6.4/50 MM Y | 50.8 mm | 3.2 - 6.4 mm   | ● yellow | 1000 | 2438070000 |

Shrink sleeves HS-FR... 25.4 mm - according with DIN EN 50343 Annex H

Technical data

| Material    | Rate of shrinkage | Temperature range | recom. Shrinks. | Order No.  | Type                   |
|-------------|-------------------|-------------------|-----------------|------------|------------------------|
| Polyolefine | 2:1               | -55...125 °C      | 90 °C           | 2448880000 | RIBBON MM-HS 60/300 SW |

Ordering data

| Type                  | Length  | Conductor O.D. | Colour   | Qty. | Order No.  |
|-----------------------|---------|----------------|----------|------|------------|
| HS-FR 1.2-2.4/25 MM W | 25.4 mm | 1.2 - 2.4 mm   | ○ white  | 2000 | 2621560000 |
| HS-FR 1.2-2.4/25 MM Y | 25.4 mm | 1.2 - 2.4 mm   | ● yellow | 2000 | 2621570000 |
| HS-FR 1.6-3.2/25 MM W | 25.4 mm | 1.6 - 3.2 mm   | ○ white  | 2000 | 2621580000 |
| HS-FR 1.6-3.2/25 MM Y | 25.4 mm | 1.6 - 3.2 mm   | ● yellow | 2000 | 2621590000 |
| HS-FR 2.4-4.8/25 MM W | 25.4 mm | 2.4 - 4.8 mm   | ○ white  | 2000 | 2621600000 |
| HS-FR 2.4-4.8/25 MM Y | 25.4 mm | 2.4 - 4.8 mm   | ● yellow | 2000 | 2621610000 |
| HS-FR 3.2-6.4/25 MM W | 25.4 mm | 3.2 - 6.4 mm   | ○ white  | 2000 | 2621620000 |
| HS-FR 3.2-6.4/25 MM Y | 25.4 mm | 3.2 - 6.4 mm   | ● yellow | 2000 | 2621630000 |

Shrink sleeves HS-FR... 50.8 mm - according with DIN EN 50343 Annex H

Technical data

| Material    | Rate of shrinkage | Temperature range | recom. Shrinks. | Order No.  | Type                   |
|-------------|-------------------|-------------------|-----------------|------------|------------------------|
| Polyolefine | 2:1               | -55...125 °C      | 90 °C           | 2448880000 | RIBBON MM-HS 60/300 SW |

Ordering data

| Type                  | Length  | Conductor O.D. | Colour   | Qty. | Order No.  |
|-----------------------|---------|----------------|----------|------|------------|
| HS-FR 1.2-2.4/50 MM W | 50.8 mm | 1.2 - 2.4 mm   | ○ white  | 1000 | 2621740000 |
| HS-FR 1.2-2.4/50 MM Y | 50.8 mm | 1.2 - 2.4 mm   | ● yellow | 1000 | 2621750000 |
| HS-FR 1.6-3.2/50 MM W | 50.8 mm | 1.6 - 3.2 mm   | ○ white  | 1000 | 2621760000 |
| HS-FR 1.6-3.2/50 MM Y | 50.8 mm | 1.6 - 3.2 mm   | ● yellow | 1000 | 2621770000 |
| HS-FR 2.4-4.8/50 MM W | 50.8 mm | 2.4 - 4.8 mm   | ○ white  | 1000 | 2621780000 |
| HS-FR 2.4-4.8/50 MM Y | 50.8 mm | 2.4 - 4.8 mm   | ● yellow | 1000 | 2621790000 |
| HS-FR 3.2-6.4/50 MM W | 50.8 mm | 3.2 - 6.4 mm   | ○ white  | 1000 | 2621800000 |
| HS-FR 3.2-6.4/50 MM Y | 50.8 mm | 3.2 - 6.4 mm   | ● yellow | 1000 | 2621810000 |



Shrink sleeves HSS... endless 13 to 30 meters

Technical data

| Material   | Rate of shrinkage | Temperature range | recom. Shrinks. | Order No.  | Type                    |
|------------|-------------------|-------------------|-----------------|------------|-------------------------|
| Polyolefin | 3:1               | -55...135 °C      | 90 °C           | 1426210000 | RIBBON HSS HF EL 40/300 |

Ordering data

| Type                                                     | Length   | Conductor O.D. | Colour   | Qty. | Order No.  |
|----------------------------------------------------------|----------|----------------|----------|------|------------|
| HSS 0.8-2.4 EL Y13M                                      | 13000 mm | 0.8 - 2.4 mm   | ● yellow | 1    | 1489530000 |
| HSS 0.8-2.4 EL W13M                                      | 13000 mm | 0.8 - 2.4 mm   | ○ white  | 1    | 1489620000 |
| HSS 0.8-2.4 EL Y30M                                      | 30000 mm | 0.8 - 2.4 mm   | ● yellow | 1    | 1505760000 |
| HSS 0.8-2.4 EL W30M                                      | 30000 mm | 0.8 - 2.4 mm   | ○ white  | 1    | 1505840000 |
| HSS 1.0-3.2 EL Y13M                                      | 13000 mm | 1 - 3.2 mm     | ● yellow | 1    | 1489540000 |
| HSS 1.0-3.2 EL W13M                                      | 13000 mm | 1 - 3.2 mm     | ○ white  | 1    | 1489630000 |
| HSS 1.0-3.2 EL Y30M                                      | 30000 mm | 1 - 3.2 mm     | ● yellow | 1    | 1505770000 |
| HSS 1.0-3.2 EL W30M                                      | 30000 mm | 1 - 3.2 mm     | ○ white  | 1    | 1505850000 |
| HSS 1.6-4.8 EL Y13M                                      | 13000 mm | 1.6 - 4.8 mm   | ● yellow | 1    | 1489550000 |
| HSS 1.6-4.8 EL W13M                                      | 13000 mm | 1.6 - 4.8 mm   | ○ white  | 1    | 1489640000 |
| HSS 1.6-4.8 EL Y30M                                      | 30000 mm | 1.6 - 4.8 mm   | ● yellow | 1    | 1505780000 |
| HSS 1.6-4.8 EL W30M                                      | 30000 mm | 1.6 - 4.8 mm   | ○ white  | 1    | 1505860000 |
| HSS 2.1-6.4 EL Y13M                                      | 13000 mm | 2.1 - 6.4 mm   | ● yellow | 1    | 1489560000 |
| HSS 2.1-6.4 EL W13M                                      | 13000 mm | 2.1 - 6.4 mm   | ○ white  | 1    | 1489650000 |
| HSS 2.1-6.4 EL Y30M                                      | 30000 mm | 2.1 - 6.4 mm   | ● yellow | 1    | 1505790000 |
| HSS 2.1-6.4 EL W30M                                      | 30000 mm | 2.1 - 6.4 mm   | ○ white  | 1    | 1505870000 |
| Verwendung von Perforationsmesser (1416330000) empfohlen |          |                |          |      |            |

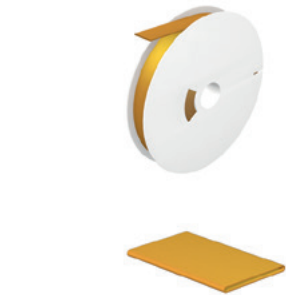
Shrinkable sleeves HSS-HF... endless 13 to 30 meters halogen-free

Technical data

| Material   | Rate of shrinkage | Temperature range | recom. Shrinks. | Order No.  | Type                    |
|------------|-------------------|-------------------|-----------------|------------|-------------------------|
| Polyolefin | 2:1               | -55...105 °C      | 90 °C           | 1426210000 | RIBBON HSS HF EL 40/300 |

Ordering data

| Type                                               | Length   | Conductor O.D. | Colour   | Qty. | Order No.  |
|----------------------------------------------------|----------|----------------|----------|------|------------|
| HSS-HF 1.2-2.4 EL Y13M                             | 13000 mm | 1.2 - 2.4 mm   | ● yellow | 1    | 1423220000 |
| HSS-HF 1.2-2.4 EL W13M                             | 13000 mm | 1.2 - 2.4 mm   | ○ white  | 1    | 1423330000 |
| HSS-HF 1.2-2.4 EL Y30M                             | 30000 mm | 1.2 - 2.4 mm   | ● yellow | 1    | 1513140000 |
| HSS-HF 1.2-2.4 EL W30M                             | 30000 mm | 1.2 - 2.4 mm   | ○ white  | 1    | 1513240000 |
| HSS-HF 1.2-2.4 EL B30M                             | 30000 mm | 1.2 - 2.4 mm   | ● blue   | 1    | 1562840000 |
| HSS-HF 1.2-2.4 EL R30M                             | 30000 mm | 1.2 - 2.4 mm   | ● red    | 1    | 1562740000 |
| HSS-HF 1.2-2.4 EL G30M                             | 30000 mm | 1.2 - 2.4 mm   | ● green  | 1    | 1562940000 |
| HSS-HF 1.2-2.4 EL SW30M                            | 30000 mm | 1.2 - 2.4 mm   | ● black  | 1    | 2518740000 |
| HSS-HF 1.6-3.2 EL Y13M                             | 13000 mm | 1.6 - 3.2 mm   | ● yellow | 1    | 1423230000 |
| HSS-HF 1.6-3.2 EL W13M                             | 13000 mm | 1.6 - 3.2 mm   | ○ white  | 1    | 1423340000 |
| HSS-HF 1.6-3.2 EL Y30M                             | 30000 mm | 1.6 - 3.2 mm   | ● yellow | 1    | 1513150000 |
| HSS-HF 1.6-3.2 EL W30M                             | 30000 mm | 1.6 - 3.2 mm   | ○ white  | 1    | 1513250000 |
| HSS-HF 1.6-3.2 EL B30M                             | 30000 mm | 1.6 - 3.2 mm   | ● blue   | 1    | 1562850000 |
| HSS-HF 1.6-3.2 EL R30M                             | 30000 mm | 1.6 - 3.2 mm   | ● red    | 1    | 1562750000 |
| HSS-HF 1.6-3.2 EL G30M                             | 30000 mm | 1.6 - 3.2 mm   | ● green  | 1    | 1562950000 |
| HSS-HF 1.6-3.2 EL SW30M                            | 30000 mm | 1.6 - 3.2 mm   | ● black  | 1    | 2518920000 |
| HSS-HF 2.4-4.8 EL Y13M                             | 13000 mm | 2.4 - 4.8 mm   | ● yellow | 1    | 1423240000 |
| HSS-HF 2.4-4.8 EL W13M                             | 13000 mm | 2.4 - 4.8 mm   | ○ white  | 1    | 1423350000 |
| HSS-HF 2.4-4.8 EL Y30M                             | 30000 mm | 2.4 - 4.8 mm   | ● yellow | 1    | 1513170000 |
| HSS-HF 2.4-4.8 EL W30M                             | 30000 mm | 2.4 - 4.8 mm   | ○ white  | 1    | 1513270000 |
| HSS-HF 2.4-4.8 EL B30M                             | 30000 mm | 2.4 - 4.8 mm   | ● blue   | 1    | 1562870000 |
| HSS-HF 2.4-4.8 EL R30M                             | 30000 mm | 2.4 - 4.8 mm   | ● red    | 1    | 1562770000 |
| HSS-HF 2.4-4.8 EL G30M                             | 30000 mm | 2.4 - 4.8 mm   | ● green  | 1    | 1562970000 |
| HSS-HF 2.4-4.8 EL SW30M                            | 30000 mm | 2.4 - 4.8 mm   | ● black  | 1    | 2518930000 |
| HSS-HF 3.2-6.4 EL Y13M                             | 13000 mm | 3.2 - 6.4 mm   | ● yellow | 1    | 1423250000 |
| HSS-HF 3.2-6.4 EL W13M                             | 13000 mm | 3.2 - 6.4 mm   | ○ white  | 1    | 1423360000 |
| HSS-HF 3.2-6.4 EL Y30M                             | 30000 mm | 3.2 - 6.4 mm   | ● yellow | 1    | 1513180000 |
| HSS-HF 3.2-6.4 EL W30M                             | 30000 mm | 3.2 - 6.4 mm   | ○ white  | 1    | 1513280000 |
| HSS-HF 3.2-6.4 EL B30M                             | 30000 mm | 3.2 - 6.4 mm   | ● blue   | 1    | 1562880000 |
| HSS-HF 3.2-6.4 EL R30M                             | 30000 mm | 3.2 - 6.4 mm   | ● red    | 1    | 1562780000 |
| HSS-HF 3.2-6.4 EL G30M                             | 30000 mm | 3.2 - 6.4 mm   | ● green  | 1    | 1562980000 |
| HSS-HF 3.2-6.4 EL SW30M                            | 30000 mm | 3.2 - 6.4 mm   | ● black  | 1    | 2518940000 |
| Use of perforation cutter (1416330000) recommended |          |                |          |      |            |



THM WriteOn Q - for fast removal

Technical data

| Material       | Temperature range | Fire class acc. to UL 94 | Adhesive              | Order No.                | Type                                        |
|----------------|-------------------|--------------------------|-----------------------|--------------------------|---------------------------------------------|
| Polyester film | -40...150 °C      | V-0                      | Polyacrylate adhesive | 2005080000<br>2005070000 | RIBBON MM 76/360 SW<br>RIBBON MM 110/360 SW |

Ordering data

| Type                | Height | Width   | Colour  | Qty. | Order No.  |
|---------------------|--------|---------|---------|------|------------|
| THM WQ-Q 25/19.1 WS | 25 mm  | 19.1 mm | ○ white | 1000 | 2711870000 |
| THM WQ-Q 25/31.8 WS | 25 mm  | 31.8 mm | ○ white | 1000 | 2711880000 |
| THM WQ-Q 25/38.1 WS | 25 mm  | 38.1 mm | ○ white | 1000 | 2711890000 |
| THM WQ-QX 25/38.1WS | 25 mm  | 38.1 mm | ○ white | 1000 | 2711960000 |

THM WriteOn-Q VIN - for fast removal

Technical data

| Material   | Temperature range | Fire class acc. to UL 94 | Adhesive              | Order No.                | Type                                        |
|------------|-------------------|--------------------------|-----------------------|--------------------------|---------------------------------------------|
| Vinyl film | -40...80 °C       | V-0                      | Polyacrylate adhesive | 2005080000<br>2005070000 | RIBBON MM 76/360 SW<br>RIBBON MM 110/360 SW |

Ordering data

| Type                     | Height | Width   | Colour  | Qty. | Order No.  |
|--------------------------|--------|---------|---------|------|------------|
| THM WQ-Q VIN 25/19.1 WS  | 25 mm  | 19.1 mm | ○ white | 1000 | 2711910000 |
| THM WQ-Q VIN 25/31.8 WS  | 25 mm  | 31.8 mm | ○ white | 1000 | 2711920000 |
| THM WQ-Q VIN 25/38.1 WS  | 25 mm  | 38.1 mm | ○ white | 1000 | 2711930000 |
| THM WQ-QX VIN 25/38.1 WS | 25 mm  | 38.1 mm | ○ white | 1000 | 2711980000 |



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