

Inspired by minimalism

It's hard to imagine an electrical installation without connectors. But many of our customers want just that. A lack of space, limited accessibility and the sheer number of cables are time-consuming challenges faced in day-to-day working life. Our developers have kept reducing the size of our HelaCon connectors further and further in their search for the answer. The latest HelaCon Plus Mini connectors (see page 409) offer ease of use combined with high standards processing reliability.



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4.1 Electrical and Technical Tapes

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HelaTape

HellermannTyton offers a comprehensive range of vinyl, rubber and cloth tapes for bundling, insulating, fixing, sealing and marking applications around all kinds of electrical applications. Vinyl electrical tapes are designed for low voltage applications and available in different dimensions and colours. Rubber tapes are suitable for sealing and insulating cables and splices in low, medium and high voltage applications. HelaTape cloth tapes are extremely strong and ideal for identification, fixing, bundling and repair purposes. HelaTape Protect is used to build professional cable and wiring harnesses.

Vinyl Electrical Tapes – Commercial Grade Vinyl Electrical Tape

HelaTape Flex 15

Features and benefits

- Vinyl electrical tape in many different colours
- Used for insulation, protection, fixing, maintenance, colour coding and more
- Good resistance to abrasion, sunlight, moisture, chemicals, and varying weather conditions
- Highly flexible with outstanding adhesion performance
- Harnessing of wires and cables
- Suitable for mechanical and electrical applications up to 1 kV
- VDE approved according to IEC 60454-3-1-6/F-PVCP/90
- Flame retardant according to IEC 60454-2



One Step to the Web!



HelaTape Flex 15 is a commercial grade, weather resistant vinyl tape.

| | |
|------------------------------|-------------------------|
| MATERIAL | Polyvinylchloride (PVC) |
| Dielectric Strength | 45 kV/mm |
| Adhesion to Steel | 2.2 N/10 mm |
| Adhesion to Backing | 2.0 N/10 mm |
| Elongation at break | 200 % |
| Breaking Strength | 28 N/10 mm |
| Operating Temperature | -10 °C to +90 °C |

RoHS

| TYPE | Thickness (T) | Width (W) | Length (L) | Colour | Article-No. |
|--------------------|---------------|-----------|------------|---|-------------|
| HTAPE-FLEX15-15x10 | 0.15 | 15.0 | 10.0 m | Black (BK) | 710-00104 |
| | 0.15 | 15.0 | 10.0 m | Blue (BU) | 710-00100 |
| | 0.15 | 15.0 | 10.0 m | Brown (BN) | 710-00107 |
| | 0.15 | 15.0 | 10.0 m | Green (GN) | 710-00103 |
| | 0.15 | 15.0 | 10.0 m | Green-Yellow (GNYE) | 710-00106 |
| | 0.15 | 15.0 | 10.0 m | Grey (GY) | 710-00108 |
| | 0.15 | 15.0 | 10.0 m | Orange (OG) | 710-00110 |
| | 0.15 | 15.0 | 10.0 m | Red (RD) | 710-00101 |
| | 0.15 | 15.0 | 10.0 m | Red (RD), Grey (GY), Yellow (YE), Green (GN), Blue (BU), Orange (OG), White (WH), Brown (BN), Black (BK), Green-Yellow (GNYE) | 710-00146 |
| | 0.15 | 15.0 | 10.0 m | Transparent (CL) | 710-00147 |
| | 0.15 | 15.0 | 10.0 m | Violet (VT) | 710-00109 |
| | 0.15 | 15.0 | 10.0 m | White (WH) | 710-00105 |
| | 0.15 | 15.0 | 10.0 m | Yellow (YE) | 710-00102 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



For product specific approvals and specifications please refer to the Appendix.



Vinyl Electrical Tapes – Commercial Grade Vinyl Electrical Tape

HelaTape Flex 15

| TYPE | Thickness (T) | Width (W) | Length (L) | Colour | Article-No. |
|--------------------|---------------|-----------|------------|---------------------|-------------|
| HTAPE-FLEX15-15x25 | 0.15 | 15.0 | 25.0 m | Black (BK) | 710-00115 |
| HTAPE-FLEX15-19x20 | 0.15 | 19.0 | 20.0 m | Black (BK) | 710-00155 |
| | 0.15 | 19.0 | 20.0 m | Blue (BU) | 710-00151 |
| | 0.15 | 19.0 | 20.0 m | Brown (BN) | 710-00158 |
| | 0.15 | 19.0 | 20.0 m | Green (GN) | 710-00154 |
| | 0.15 | 19.0 | 20.0 m | Green-Yellow (GNYE) | 710-00157 |
| | 0.15 | 19.0 | 20.0 m | Grey (GY) | 710-00159 |
| | 0.15 | 19.0 | 20.0 m | Red (RD) | 710-00152 |
| | 0.15 | 19.0 | 20.0 m | Violet (VT) | 710-00160 |
| | 0.15 | 19.0 | 20.0 m | White (WH) | 710-00156 |
| | 0.15 | 19.0 | 20.0 m | Yellow (YE) | 710-00153 |
| HTAPE-FLEX15-19x25 | 0.15 | 19.0 | 25.0 m | Black (BK) | 710-00126 |
| HTAPE-FLEX15-25x25 | 0.15 | 25.0 | 25.0 m | Black (BK) | 710-00137 |
| | 0.15 | 25.0 | 25.0 m | Blue (BU) | 710-00133 |
| | 0.15 | 25.0 | 25.0 m | Brown (BN) | 710-00140 |
| | 0.15 | 25.0 | 25.0 m | Green (GN) | 710-00136 |
| | 0.15 | 25.0 | 25.0 m | Green-Yellow (GNYE) | 710-00139 |
| | 0.15 | 25.0 | 25.0 m | Grey (GY) | 710-00141 |
| | 0.15 | 25.0 | 25.0 m | Red (RD) | 710-00134 |
| | 0.15 | 25.0 | 25.0 m | White (WH) | 710-00138 |
| | 0.15 | 25.0 | 25.0 m | Yellow (YE) | 710-00135 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



For product specific approvals and specifications please refer to the Appendix.



Vinyl Electrical Tapes – Insulating Tape for Higher Mechanical Requirements

HelaTape Flex 20



HelaTape Flex 20 - Higher thickness for quicker layering.

Features and benefits

- Vinyl electrical tape with strong rubber adhesive
- Suitable for mechanical and electrical applications up to 1000 Volt
- Additional thickness for quicker layering and higher abrasion resistance
- Weather resistant
- Flame retardant according to UL 510 Standard

| MATERIAL | Polyvinylchloride (PVC) |
|-----------------------|-------------------------|
| Dielectric Strength | 45 kV/mm |
| Adhesion to Steel | 2.5 N/10 mm |
| Adhesion to Backing | 2.5 N/10 mm |
| Elongation at break | 260 % |
| Breaking Strength | 40 N/10 mm |
| Operating Temperature | -10 °C to +90 °C |

RoHS

Vinyl Electrical Tapes – Insulating Tape for Higher Mechanical Requirements

HelaTape Flex 25



HelaTape Flex 25 for higher abrasion resistance.

Features and benefits

- Vinyl film coated with high quality rubber adhesive
- Extra high material thickness
- Highly resistant to sun, water, oil, acids, alkalies, corrosive chemicals
- Used for insulation, protection, fixing, maintenance and more
- Superior vinyl tape with excellent all-weather performance
- Flame retardant according to UL 510 Standard

| MATERIAL | Polyvinylchloride (PVC) |
|-----------------------|-------------------------|
| Dielectric Strength | 45 kV/mm |
| Adhesion to Steel | 2.6 N/10 mm |
| Adhesion to Backing | 2.6 N/10 mm |
| Elongation at break | 240 % |
| Breaking Strength | 46 N/10 mm |
| Operating Temperature | -10 °C to +90 °C |

RoHS

HelaTape Flex 20

| TYPE | Thickness (T) | Width (W) | Length (L) | Colour | Article-No. |
|--------------------|---------------|-----------|------------|------------|-------------|
| HTAPE-FLEX20-19x20 | 0.20 | 19.0 | 20.0 m | Black (BK) | 710-10300 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

HelaTape Flex 25

| TYPE | Thickness (T) | Width (W) | Length (L) | Colour | Article-No. |
|--------------------|---------------|-----------|------------|------------|-------------|
| HTAPE-FLEX25-19x33 | 0.25 | 19.0 | 33.0 m | Black (BK) | 710-00450 |
| HTAPE-FLEX25-38x33 | 0.25 | 38.0 | 33.0 m | Black (BK) | 710-00451 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



Vinyl Electrical Tapes – Premium Vinyl Electrical Tape

HelaTape Flex 1000+

Features and benefits

- All-weather, highly flexible, professional grade, self-adhesive vinyl electrical tape
- Excellent performance and durability over wide temperature range from -18°C to +105°C according to CSA C22.2
- VDE approved according to IEC 60454-3-1-7/F-PVCP/90
- Used for insulation, protection, fixing, maintenance, colour coding and more
- Pressure sensitive high quality rubber based adhesive
- Performs continuously at low temperature environment
- Excellent resistance to abrasion, moisture, chemicals, corrosion and UV exposure
- Primary electrical insulation for all wire and cable splices up to 1 kV
- Protective jacketing for low, medium and high voltage splices and repairs
- Flame retardant according to UL 510 Standard
- For indoor and outdoor applications
- Size 19 mm x 20 m is single packed in a plastic can, only 710-10601 comes in a pack of 10 pcs.



HelaTape Flex 1000+ provides excellent low temperature performance.

| | |
|------------------------------|-------------------------|
| MATERIAL | Polyvinylchloride (PVC) |
| Dielectric Strength | 45 kV/mm |
| Adhesion to Steel | 3.0 N/10 mm |
| Adhesion to Backing | 2.5 N/10 mm |
| Elongation at break | 300 % |
| Breaking Strength | 35 N/10 mm |
| Operating Temperature | -18 °C to +105 °C |

RoHS ✓

| TYPE | Thickness (T) | Width (W) | Length (L) | Colour | Article-No. |
|-----------------------------------|---------------|-----------|------------|---------------------|-------------|
| HTAPE-FLEX1000+ 19x6 | 0.18 | 19.0 | 6.0 m | Black (BK) | 710-10600 |
| HTAPE-FLEX1000+ 19x20 PACK | 0.18 | 19.0 | 20.0 m | Black (BK) | 710-10601 |
| HTAPE-FLEX1000+ 19x20 | 0.18 | 19.0 | 20.0 m | Black (BK) | 710-10602 |
| HTAPE-FLEX1000+ C 19x20 | 0.18 | 19.0 | 20.0 m | Blue (BU) | 710-10603 |
| | 0.18 | 19.0 | 20.0 m | Brown (BN) | 710-10608 |
| | 0.18 | 19.0 | 20.0 m | Green (GN) | 710-10606 |
| | 0.18 | 19.0 | 20.0 m | Green-Yellow (GNYE) | 710-10612 |
| | 0.18 | 19.0 | 20.0 m | Grey (GY) | 710-10609 |
| | 0.18 | 19.0 | 20.0 m | Red (RD) | 710-10604 |
| | 0.18 | 19.0 | 20.0 m | White (WH) | 710-10607 |
| | 0.18 | 19.0 | 20.0 m | Yellow (YE) | 710-10605 |
| HTAPE-FLEX1000+ 19x33 | 0.18 | 19.0 | 33.0 m | Black (BK) | 710-10610 |
| HTAPE-FLEX1000+ 50x33 | 0.18 | 50.0 | 33.0 m | Black (BK) | 710-10611 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



For product specific approvals and specifications please refer to the Appendix.



Vinyl Electrical Tapes – Premium Heavy Duty Vinyl Electrical Tape

HelaTape Flex 2000+

Features and benefits

- All-weather, highly flexible, professional grade, self-adhesive vinyl electrical tape with higher thickness for more mechanical and electrical protection
- Excellent performance and durability over wide temperature range from -18 °C to +105 °C according to CSA C22.2
- Pressure sensitive and aggressive high quality rubber based adhesive
- Performs continuously at low temperature environment
- Flame retardant according to UL 510 Standard
- Excellent resistance to abrasion, moisture, chemicals, corrosion and UV exposure
- Primary electrical insulation for all wire and cable splices up to 1 kV



HelaTape Flex 2000+ is the best choice for professional installation.

| | |
|------------------------------|-------------------------|
| MATERIAL | Polyvinylchloride (PVC) |
| Dielectric Strength | 48 kV/mm |
| Adhesion to Steel | 3.1 N/10 mm |
| Adhesion to Backing | 2.5 N/10 mm |
| Elongation at break | 300 % |
| Breaking Strength | 40 N/10 mm |
| Operating Temperature | -18 °C to +105 °C |

RoHS ✓

| TYPE | Thickness (T) | Width (W) | Length (L) | Colour | Article-No. |
|----------------------|---------------|-----------|------------|------------|-------------|
| HTAPE-FLEX2000+19x20 | 0.21 | 19.0 | 20.0 m | Black (BK) | 710-10701 |
| HTAPE-FLEX2000+38x20 | 0.21 | 38.0 | 20.0 m | Black (BK) | 710-10705 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



Vinyl Electrical Tapes – Vinyl Tape for Corrosion Protection

HelaTape Wrap 25

Features and benefits

- Special adhesive with excellent protection against corrosion
- Complete environmental, mechanical and electrical protection
- Highly resistant to UV, water, oil, most chemicals, bacteria and fungus
- Used for pipes, tubes, and conduits in outside and underground applications



HelaTape Wrap 25 protects against all types of corrosion.

| | |
|------------------------------|-------------------------|
| MATERIAL | Polyvinylchloride (PVC) |
| Dielectric Strength | 40 kV/mm |
| Adhesion to Steel | 2.4 N/10 mm |
| Adhesion to Backing | 2.0 N/10 mm |
| Elongation at break | 250 % |
| Breaking Strength | 48 N/10 mm |
| Operating Temperature | -10 °C to +90 °C |

RoHS ✓

| TYPE | Thickness (T) | Width (W) | Length (L) | Colour | Article-No. |
|---------------------|------------------|--------------|---------------|------------|-------------|
| HTAPE-WRAP25-25x30 | 0.25 | 25.0 | 30.0 m | Black (BK) | 710-10800 |
| HTAPE-WRAP25-50x30 | 0.25 | 50.0 | 30.0 m | Black (BK) | 710-10802 |
| HTAPE-WRAP25-100x30 | 0.25 | 100.0 | 30.0 m | Black (BK) | 710-10803 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



Conductive Tapes – Electrical Semi-Conducting Tape

HelaTape Shield 310



HelaTape Shield 310 self-amalgamating conducting tape for shielding high voltage splices and terminations.

Features and benefits

- Self-amalgamating conducting tape made from ethylene propylene rubber
- Provides good conducting properties
- Prevents partial discharges
- Moisture and UV-resistant and easy to apply
- Replacement for semiconducting layer underneath the metallic shield in case of repairs and connections of medium to high voltage cables

| | |
|---|---------------------------------|
| MATERIAL | Ethylene Propylene Rubber (EPR) |
| Operating Temperature | +90 °C |
| Intermittent Operating Temperature | +130 °C |
| Water Absorption | 0.02 % |
| Elongation at break | 500 % |
| Volume Resistance | 870 Ω cm |

RoHS

Conductive Tapes – Electrical Shielding Tape

HelaTape Shield 320



HelaTape Shield 320 provides good electromagnetic shielding.

Features and benefits

- Copper shielding braid, tin-plated
- Quick and easy to use due to copper knit-mesh design
- Excellent conformability
- Good electromagnetic properties
- Used for splices and terminations of shielded cables

| | |
|----------------------------|--------------------------|
| MATERIAL | Tin-plated copper (TNCU) |
| Elongation at break | 5 % |

RoHS

HelaTape Shield 310

| TYPE | Thickness (T) | Width (W) | Length (L) | Colour | Article-No. |
|-----------------|---------------|-----------|------------|------------|-------------|
| HTAPE-SHIELD310 | 0.76 | 19.0 | 4.6 m | Black (BK) | 711-10000 |
| | 0.76 | 38.0 | 9.1 m | Black (BK) | 711-10001 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

HelaTape Shield 320

| TYPE | Thickness (T) | Width (W) | Length (L) | Colour | Article-No. |
|-----------------|---------------|-----------|------------|--------------|-------------|
| HTAPE-SHIELD320 | 0.45 | 25.0 | 4.6 m | Natural (NA) | 711-10002 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



High Temperature Tapes – Arc and Fireproofing Tape

HelaTape Power 410



HelaTape Power 410 is an unsupported, linerless, elastomeric tape used for arc and flame protection.

Features and benefits

- Unsupported, linerless, elastomeric tape
- Superior arc and flame proofing for high voltage and communication cables
- For cable protection in cable trays, switch boxes, cable conduits and substations
- Excellent flexibility and conformability for easy application
- Creates insulating residue when exposed to severe flame conditions
- Passes flammability test according to Con-Ed EO 5343-14
- Withstands Bunsen burner flame for many minutes
- Water, chemical and UV resistant

| | |
|----------------------------|----------------|
| MATERIAL | Elastomer (PM) |
| Elongation at break | 300 % |

RoHS

Self-amalgamating Tapes – Low Voltage Rubber Tape

HelaTape Power 600



HelaTape Power 600 is a self-amalgamating low voltage rubber tape.

Features and benefits

- Self-amalgamating low voltage rubber tape
- Primary insulation at not more than 1 kV
- Easily suitable to irregular shapes and surfaces
- Compatible with all extruded dielectric cable insulations
- Weather resistant and flame retardant according to UL 510
- Recommended use in conjunction with HelaTape Flex for mechanical protection

| | |
|---|---------------------|
| MATERIAL | Natural Rubber (NR) |
| Operating Temperature | +80 °C |
| Intermittent Operating Temperature | +95 °C |
| Tensile Strength | 2 N/mm ² |
| Elongation at break | 300 % |
| Dielectric Strength | 14 kV/mm |

HF

RoHS

HelaTape Power 410

| TYPE | Thickness (T) | Width (W) | Length (L) | Colour | Article-No. |
|----------------|---------------|-----------|------------|-----------|-------------|
| Htape-POWER410 | 0.76 | 38.0 | 6.0 m | Grey (GY) | 711-10100 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

HelaTape Power 600

| TYPE | Thickness (T) | Width (W) | Length (L) | Colour | Article-No. |
|-----------------------|---------------|-----------|------------|------------|-------------|
| Htape-POWER600-19x6.7 | 0.76 | 19.0 | 6.7 m | Black (BK) | 711-10200 |
| Htape-POWER600-38x6.7 | 0.76 | 38.0 | 6.7 m | Black (BK) | 711-10201 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



Self-amalgamating Tapes – Electrical Insulation Mastic

HelaTape Power 650

Features and benefits

- Self-amalgamating insulation compound for sealing and padding cable jackets up to 1 kV
- Easily moulded by hand to conform to irregular shapes even during low temperatures
- Permanently elastic and resistant to aging
- Perfect adhesion to metal and all types of cable insulations and jackets
- Provides excellent moisture sealing
- Resistant to salt water, ozone, oil and corrosive chemicals
- Recommended use with HelaTape Flex vinyl electrical tape for mechanical protection



HelaTape Power 650 self-amalgamating mastic is highly flexible.

| | |
|---|--|
| MATERIAL | Isobutene-Isoprene-Rubber (butyl rubber) (IIR) |
| Operating Temperature | +90 °C |
| Intermittent Operating Temperature | +130 °C |
| Water Absorption | 0.1 % |
| Volume Resistance | 10 ¹⁵ Ω cm |
| Dielectric Strength | 19.7 kV/mm |

HF ✓

RoHS ✓

| TYPE | Thickness (T) | Width (W) | Length (L) | Colour | Article-No. |
|----------------|---------------|-----------|------------|------------|-------------|
| HTAPE-POWER650 | 3.20 | 38.0 | 1.5 m | Black (BK) | 711-10300 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



Self-amalgamating Tapes – Rubber Mastic Tape

HelaTape Power 660 RM

Features and benefits

- Self-amalgamating rubber mastic tape
- EPR backing coated with a tacky, temperature-stable mastic adhesive
- Designed for electrical insulating and moisture sealing applications
- Can be used as cable jacket replacement
- Perfect adhesion and sealing for copper and aluminium wires
- Easily suitable to irregular shapes and surfaces
- Compatible with all extruded cable insulations
- UV, moisture, corrosion, and chemical resistant
- Primary electrical insulation for bus bar connections rated up to 35 kV
- Recommended use with HelaTape Flex vinyl electrical tape for mechanical protection



HelaTape Power 660 is a very flexible rubber mastic sealing and padding tape.

| | |
|---|---|
| MATERIAL | Ethylene Propylene Rubber (EPR), Isobutene-Isoprene-Rubber (butyl rubber) (IIR) |
| Operating Temperature | +90 °C |
| Intermittent Operating Temperature | +130 °C |
| Water Absorption | 0.1 % |
| Tensile Strength | 1.5 N/mm ² |
| Dielectric Strength | 19.7 kV/mm |

HF ✓

RoHS ✓

| TYPE | Thickness (T) | Width (W) | Length (L) | Colour | Article-No. |
|-------------------|---------------|-----------|------------|------------|-------------|
| HTAPE-POWER660-RM | 1.65 | 50.8 | 3.0 m | Black (BK) | 711-00307 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



Self-amalgamating Tapes – Vinyl Mastic Tape

HelaTape Power 670 VM

Features and benefits

- Easy to apply vinyl mastic tape
- Self-adhesive application - without stretching
- Mastic layer is very sticky and provides excellent moisture sealing
- Vinyl top layer provides additional protection
- Performs continuously at low temperature environment
- Primary insulation up to 1 kV
- Compatible with all extruded cable insulations
- UV and weather resistant



HelaTape Power 670 provides additional vinyl film protection to the mastic compound.

| MATERIAL | Polyvinylchloride (PVC), Isobutene-Isoprene-Rubber (butyl rubber) (IIR) |
|------------------------------------|---|
| Operating Temperature | +80 °C |
| Intermittent Operating Temperature | +95 °C |
| Water Absorption | 0.9 % |
| Tensile Strength | 16 N/mm ² |
| Elongation at break | 200 % |
| Volume Resistance | 10 ¹² Ω cm |
| Dielectric Strength | 19.7 kV/mm |

HF ✓

RoHS ✓

| TYPE | Thickness (T) | Width (W) | Length (L) | Colour | Article-No. |
|-------------------|---------------|-----------|------------|------------|-------------|
| HTAPE-POWER670-VM | 1.20 | 100.0 | 3.0 m | Black (BK) | 711-00304 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



Self-amalgamating Tapes – Medium Voltage Rubber Tape

HelaTape Power 700

Features and benefits

- Polyisobutylene-based self-amalgamating medium voltage tape
- Insulating and jacketing power cables up to 46 kV
- Provides electrical stability and permanent moisture sealing
- Perfect stretching properties allows fast and uniform application
- Excellent UV, moisture, corrosion and chemical resistance
- Temperature range from -40 °C to +90 °C
- Compatible with all extruded cable insulation materials



HelaTape Power 700 is a self-amalgamating medium voltage rubber tape.

| | |
|------------------------------|-------------------------------|
| MATERIAL | Polyisobutylene Rubber (PIBR) |
| Operating Temperature | +90 °C |
| Water Absorption | 0.02 % |
| Tensile Strength | 2.4 N/mm ² |
| Elongation at break | 700 % |
| Volume Resistance | 10 ¹³ Ω cm |
| Dielectric Strength | 35 kV/mm |

HF ✓

RoHS ✓

| TYPE | Thickness (T) | Width (W) | Length (L) | Colour | Article-No. |
|--------------------|------------------|--------------|---------------|------------|-------------|
| HTAPE-POWER700-PIB | 0.50 | 19.0 | 10.0 m | Black (BK) | 711-00308 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



Self-amalgamating Tapes – Medium Voltage Rubber Tape (Linerless)

HelaTape Power 715

The rubber-based self-amalgamating linerless tape is used for electrical insulation, protection, sealing, splicing and termination of cables up to 35 kV. The special material comes without a separating liner and reduces therefore the time required to apply the tape. It features with excellent UV, moisture, corrosion, ozone and chemical resistance. HelaTape Power 715 is compatible with all extruded dielectric cable insulations.

Features and benefits

- Rubber-based self-amalgamating linerless tape
- Used for waterproof sealing and corrosion protection of cables
- Excellent electrical insulation and weather protection
- Time saving application without liner
- Easy to apply and very flexible



HelaTape Power 715 allows quicker layering due to the linerless composition.

| | |
|---|---------------------------------|
| MATERIAL | Ethylene Propylene Rubber (EPR) |
| Operating Temperature | +90 °C |
| Intermittent Operating Temperature | +130 °C |
| Water Absorption | 0.06 % |
| Tensile Strength | 2.1 N/mm ² |
| Elongation at break | 700 % |
| Volume Resistance | 10 ¹⁶ Ω cm |
| Dielectric Strength | 30 kV/mm |

HF ✓

RoHS ✓

| TYPE | Thickness (T) | Width (W) | Length (L) | Colour | Article-No. |
|----------------------|------------------|--------------|---------------|------------|-------------|
| HTAPE-POWER715-19x5 | 0.50 | 19.0 | 5.0 m | Black (BK) | 711-00310 |
| HTAPE-POWER715-19x10 | 0.50 | 19.0 | 10.0 m | Black (BK) | 711-00311 |
| HTAPE-POWER715-25x10 | 0.50 | 25.0 | 10.0 m | Black (BK) | 711-00312 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



Self-amalgamating Tapes – Silicone Rubber Tape

HelaTape Power 800

Features and benefits

- Self-amalgamating and self-cleaning, chemically cross-linked silicone rubber tape
- Triangular cross-section with centre line for precise half-overlapping
- Resistant to creepage and surface erosion
- Fuses into solid mass after application
- Weather, UV and oil resistant
- Recommended use for high temperature silicone insulated cables and outdoor machinery and transformers



HelaTape Power 800 is a silicone rubber tape with triangular cross-section.

| | |
|------------------------------|-----------------------|
| MATERIAL | Silicone (SI) |
| Operating Temperature | +180 °C |
| Tensile Strength | 7 N/mm ² |
| Elongation at break | 400 % |
| Volume Resistance | 10 ¹⁴ Ω cm |
| Dielectric Strength | 23.5 kV/mm |

HF ✓

RoHS ✓

| TYPE | Thickness (T) | Width (W) | Length (L) | Colour | Article-No. |
|----------------|------------------|--------------|---------------|-----------|-------------|
| HTAPE-POWER800 | 0.51 | 25.0 | 9.1 m | Grey (GY) | 711-10400 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

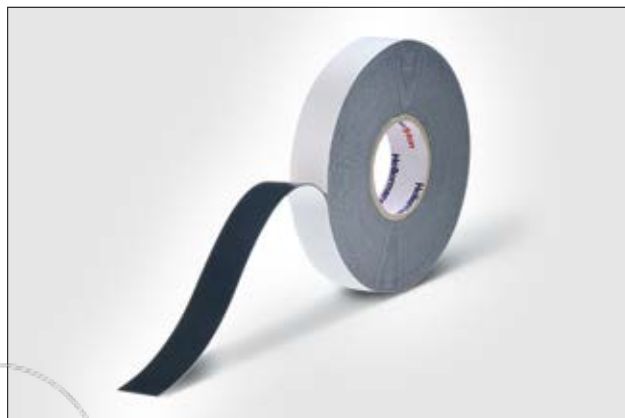


Self-amalgamating Tapes – High Voltage Rubber Tape

HelaTape Power 810

Features and benefits

- Self-amalgamating tape for insulating and jacketing splices up to 69 kV
- Halogen-free with outstanding corona, ozone and UV-resistance
- Ideal for sealing of terminations, electrical connections, and cable jacket repair
- Void-free, electrically stable layering
- Protects bus bar components
- Excellent moisture, corrosion and chemical resistance
- Compatible with all extruded cable insulations



HelaTape Power 810 for primary insulation up to 69 kV.

| | |
|---|---------------------------------|
| MATERIAL | Ethylene Propylene Rubber (EPR) |
| Operating Temperature | +90 °C |
| Intermittent Operating Temperature | +130 °C |
| Water Absorption | 0.06 % |
| Tensile Strength | 2.4 N/mm ² |
| Elongation at break | 750 % |
| Volume Resistance | 10 ¹⁶ Ω cm |
| Dielectric Strength | 30 kV/mm |

HF ✓

RoHS ✓

| TYPE | Thickness (T) | Width (W) | Length (L) | Colour | Article-No. |
|----------------|---------------|-----------|------------|------------|-------------|
| HTAPE-POWER810 | 0.76 | 19.0 | 9.1 m | Black (BK) | 711-10401 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

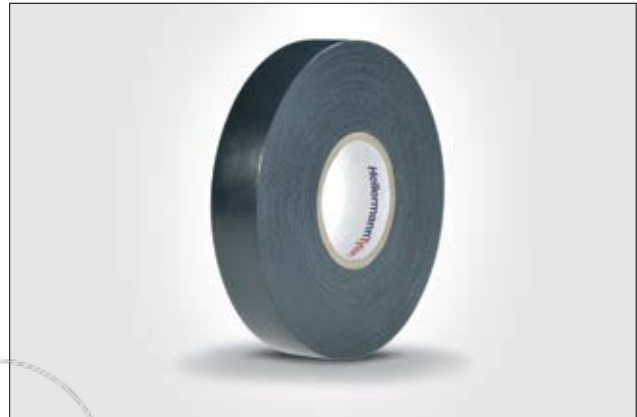


Self-amalgamating Tapes – High Voltage Rubber Tape (Linerless)

HelaTape Power 820

Features and benefits

- Self-amalgamating, linerless tape for insulating and jacketing splices up to 69 kV
- Excellent electrical, chemical and physical properties
- Building stress cones and jacketing of terminations, bus bars and joints
- Quicker application due to linerless design
- Uniform and void-free layering
- Very flexible to conform to the most complex shapes
- Compatible with all extruded cable insulations



HelaTape Power 820 provides substantial time saving due to the linerless design.

| | |
|---|---------------------------------|
| MATERIAL | Ethylene Propylene Rubber (EPR) |
| Operating Temperature | +90 °C |
| Intermittent Operating Temperature | +130 °C |
| Water Absorption | 0.06 % |
| Tensile Strength | 2.8 N/mm ² |
| Elongation at break | 750 % |
| Volume Resistance | 10 ¹⁶ Ω cm |
| Dielectric Strength | 31.5 kV/mm |

RoHS ✓

| TYPE | Thickness (T) | Width (W) | Length (L) | Colour | Article-No. |
|----------------|---------------|-----------|------------|------------|-------------|
| HTAPE-POWER820 | 0.76 | 19.0 | 9.1 m | Black (BK) | 711-10402 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



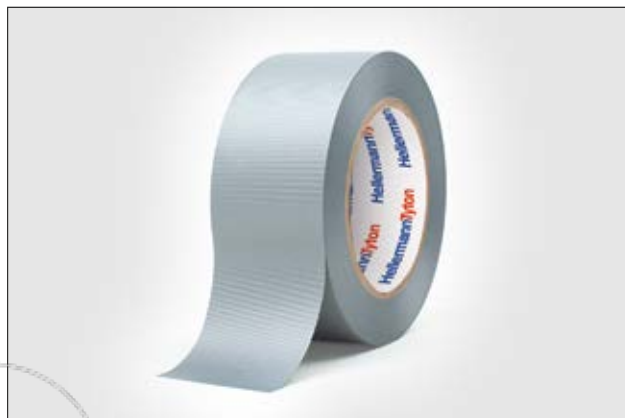
Technical Tapes – Vinyl Bundling Tape

HelaTape Allround 1500

Allround 1500 - Electricians Duct Tape is designed for bundling, holding, fixing and maintenance applications. It can be also used as temporary surface protection of steel and aluminium parts.

Features and benefits

- Vinyl film coated with high quality rubber adhesive
- Excellent performance and durability
- Easy to tear
- No cloth – does not absorb water
- Used for bundling, holding, fixing and maintenance
- This product has no electrical insulating properties



HelaTape Allround 1500 - Universal and very strong vinyl bundling tape.

| | |
|----------------------------|-------------------------|
| MATERIAL | Polyvinylchloride (PVC) |
| Adhesion to Steel | 1.5 N/10 mm |
| Adhesion to Backing | 1.5 N/10 mm |
| Elongation at break | 150 % |
| Breaking Strength | 18 N/10 mm |

RoHS ✓

| TYPE | Thickness (T) | Width (W) | Length (L) | Colour | Article-No. |
|--------------------|---------------|-----------|------------|-----------|-------------|
| HTAPE-ALLROUND1500 | 0.15 | 51.0 | 46.0 m | Grey (GY) | 710-01000 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



HelaTape. The Tape-Team.

A professional team of electrical and technical tapes for bundling, insulating, fixing, sealing and marking.





Technical Tapes – Cloth Tape

HelaTape Tex

Features and benefits

- High quality PE-coated cloth tape with good weather resistance
- Total thickness of 0.31 mm for high tensile strength
- Highly tear-resistant in longitudinal direction
- Easy to tear-off by hand in transverse direction
- Matt surface finish for use in stage constructions and for exhibitions to avoid light reflections
- Useful for various applications like bundling, fixing, identification, marking and protection
- HelaTape Tex can be removed without residues due to high quality rubber based adhesive



HelaTape Tex is available in various colours and sizes.

| | |
|------------------------------|------------------|
| MATERIAL | Cotton (CO) |
| Operating Temperature | -30 °C to +80 °C |
| Adhesion to Backing | 3 N/10 mm |
| Elongation at break | 10 % |
| Breaking Strength | 64 N/10 mm |

HF ✓

RoHS ✓

| TYPE | Thickness (T) | Width (W) | Length (L) | Colour | Article-No. |
|-----------------|------------------|--------------|---------------|-------------|-------------|
| HTAPE-TEX-19x10 | 0.31 | 19.0 | 10.0 m | Black (BK) | 712-00204 |
| | 0.31 | 19.0 | 10.0 m | Blue (BU) | 712-00200 |
| | 0.31 | 19.0 | 10.0 m | Green (GN) | 712-00203 |
| | 0.31 | 19.0 | 10.0 m | Grey (GY) | 712-00206 |
| | 0.31 | 19.0 | 10.0 m | Red (RD) | 712-00201 |
| | 0.31 | 19.0 | 10.0 m | White (WH) | 712-00205 |
| | 0.31 | 19.0 | 10.0 m | Yellow (YE) | 712-00202 |
| HTAPE-TEX-19x50 | 0.31 | 19.0 | 50.0 m | Black (BK) | 712-00504 |
| | 0.31 | 19.0 | 50.0 m | Blue (BU) | 712-00500 |
| | 0.31 | 19.0 | 50.0 m | Green (GN) | 712-00503 |
| | 0.31 | 19.0 | 50.0 m | Grey (GY) | 712-00506 |
| | 0.31 | 19.0 | 50.0 m | Red (RD) | 712-00501 |
| | 0.31 | 19.0 | 50.0 m | White (WH) | 712-00505 |
| | 0.31 | 19.0 | 50.0 m | Yellow (YE) | 712-00502 |
| HTAPE-TEX-50x50 | 0.31 | 50.0 | 50.0 m | Black (BK) | 712-00904 |
| | 0.31 | 50.0 | 50.0 m | Blue (BU) | 712-00900 |
| | 0.31 | 50.0 | 50.0 m | Green (GN) | 712-00903 |
| | 0.31 | 50.0 | 50.0 m | Grey (GY) | 712-00906 |
| | 0.31 | 50.0 | 50.0 m | Red (RD) | 712-00901 |
| | 0.31 | 50.0 | 50.0 m | White (WH) | 712-00905 |
| | 0.31 | 50.0 | 50.0 m | Yellow (YE) | 712-00902 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



Wire Harness Tape – Hand-tearable Cloth Tape

HelaTape Protect 180



HelaTape Protect 180 is very flexible and used for cable harnessing.

Features and benefits

- High quality Polyester Fabric harnessing tape
- Rubber-based adhesive offers very good heat and media resistance
- High temperature stability from -40 °C to +125 °C
- Temperature resistance tested according to LV312
- Very good resistance against abrasion
- Material is very flexible and tearable by hand
- Provides long term reliability under varying and extreme environmental conditions
- Excellent ageing resistance, stable against rotting

| MATERIAL | Polyester (PET) |
|-----------------------|-------------------|
| Operating Temperature | -40 °C to +125 °C |
| Adhesion to Steel | 3 N/10 mm |
| Adhesion to Backing | 3 N/10 mm |
| Elongation at break | 15 % |
| Breaking Strength | 65 N/10 mm |

HF ✓

RoHS ✓

Wire Harness Tape – Strong, High Temperature Cloth Tape

HelaTape Protect 250



HelaTape Protect 250 is designed for cable harnessing and offers a very high temperature resistance.

Features and benefits

- High temperature Polyester Fabric harnessing tape
- Special acrylate-based adhesive offers very good heat and media resistance
- Very high temperature stability from -40 °C to +150 °C
- Temperature and humidity resistance tested according to LV312
- Very good resistance against abrasion
- Material is very flexible and easy to handle
- Excellent ageing resistance, stable against rotting

| MATERIAL | Polyester (PET) |
|-----------------------|-------------------|
| Operating Temperature | -40 °C to +150 °C |
| Adhesion to Steel | 2.5 N/10 mm |
| Adhesion to Backing | 2 N/10 mm |
| Elongation at break | 15 % |
| Breaking Strength | 180 N/10 mm |

HF ✓

RoHS ✓

HelaTape Protect 180

| TYPE | Thickness (T) | Width (W) | Length (L) | Colour | Article-No. |
|------------------|---------------|-----------|------------|------------|-------------|
| HTAPE-PROTECT180 | 0.18 | 19.0 | 25.0 m | Black (BK) | 712-10002 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

HelaTape Protect 250

| TYPE | Thickness (T) | Width (W) | Length (L) | Colour | Article-No. |
|------------------|---------------|-----------|------------|------------|-------------|
| HTAPE-PROTECT250 | 0.25 | 19.0 | 25.0 m | Black (BK) | 712-10003 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



Wire Harness Tape – Soft and Flexible Fleece Tape

HelaTape Protect 300



HelaTape Protect 300 provides high noise reduction and media resistance.

Features and benefits

- Soft Polyester Fleece harnessing tape
- High noise reduction and very high resistance against abrasion
- Synthetic rubber based adhesive offers good heat and media resistance
- High temperature stability from -40 °C to +105 °C
- Material is very flexible and tearable by hand
- Excellent ageing resistance and stable against rotting

| | |
|------------------------------|-------------------|
| MATERIAL | Polyester (PET) |
| Operating Temperature | -40 °C to +105 °C |
| Adhesion to Steel | 2 N/10 mm |
| Adhesion to Backing | 2 N/10 mm |
| Elongation at break | 10 % |
| Breaking Strength | 30 N/10 mm |

HF ✓

RoHS ✓

HelaTape Protect 300

| TYPE | Thickness (T) | Width (W) | Length (L) | Colour | Article-No. |
|------------------|---------------|-----------|------------|------------|-------------|
| HTAPE-PROTECT300 | 0.30 | 19.0 | 25.0 m | Black (BK) | 712-10001 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

Wire Harness Tape – High Noise Reduction Tape

HelaTape Protect 1500



HelaTape Protect 1500 is extremely soft and offers very high noise reduction.

Features and benefits

- High quality Polyamide Velours harnessing tape
- Highest noise reduction and very high resistance against abrasion
- Acrylate based adhesive offers very good heat and media resistance
- High temperature stability from -40 °C to +130 °C
- Material is extremely soft and very flexible
- Excellent ageing resistance, stable against rotting

| | |
|------------------------------|-------------------|
| MATERIAL | Polyamide (PA) |
| Operating Temperature | -40 °C to +130 °C |
| Adhesion to Steel | 2.5 N/10 mm |
| Adhesion to Backing | 2 N/10 mm |
| Elongation at break | 50 % |
| Breaking Strength | 100 N/10 mm |

HF ✓

RoHS ✓

HelaTape Protect 1500

| TYPE | Thickness (T) | Width (W) | Length (L) | Colour | Article-No. |
|-------------------|---------------|-----------|------------|------------|-------------|
| HTAPE-PROTECT1500 | 1.50 | 25.0 | 4.0 m | Black (BK) | 712-10000 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



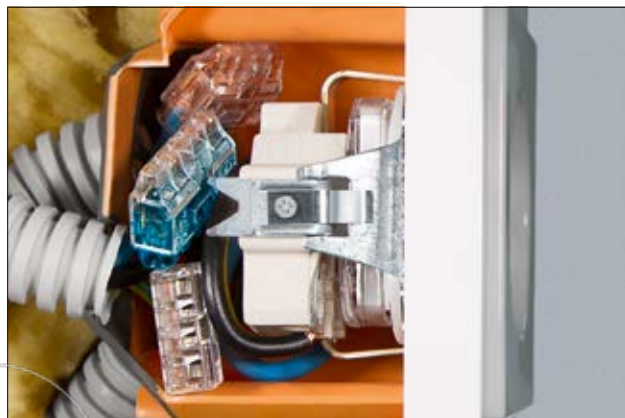
Connectors - For Solid and Stranded Wires

HelaCon Plus Mini

HelaCon connectors are used for fast, easy and reliable connection and distribution of cable and conductors in electrical installation applications. The new generation of HelaCon Plus Mini wire connectors can be applied tool-free using the push-in technology. HelaCon Plus Mini uses a double spring which is approved for solid and stranded wires.

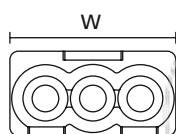
Features and benefits

- 40% smaller – Space saving design
- Low insertion force – Easy to use, saves time on installation
- Easy access to voltage test entry and innovative port shape design
- Correct installation can be visually checked through transparent housing
- Different colour codes for easy identification of size
- Allows different conductor diameters in each entry
- Safe application, installation and maintenance
- Practical Variobox with 350 pcs. of selected HCPM wire connectors available (148-90046)



HelaCon Plus Mini fits perfect in every space limited situation.

| | |
|------------------------------|---|
| MATERIAL | Polycarbonate (PC) |
| Max Current | 24 A |
| Max Voltage | 450 V |
| Wire Range (VDE) | 0.5 to 2.5 mm ² solid wires / 1.0 to 2.5 mm ² stranded wires |
| Stripping Length | 11 mm |
| Flammability | UL94 V0 |
| Operating Temperature | -30 °C to +85 °C |



HelaCon Plus Mini front view



HelaCon Plus Mini side view



One Step to the Web!

HF ✓

RoHS ✓

| TYPE | Drawing | Number of Conductors | Colour | Width (W) | Height (H) | Length (L) | Pack Cont. | Article-No. |
|-------------------|---------|----------------------|-------------------------------|-----------|------------|------------|------------|-------------|
| HCPM-2 | | 2 | Transparent (CL), Yellow (YE) | 10.8 | 7.7 | 16.5 | 150 pcs. | 148-90036 |
| HCPM-3 | | 3 | Transparent (CL), Orange (OG) | 15.1 | 7.7 | 16.5 | 100 pcs. | 148-90037 |
| HCPM-4 | | 4 | Transparent (CL) | 19.4 | 7.7 | 16.5 | 100 pcs. | 148-90038 |
| HCPM-5 | | 5 | Transparent (CL), Blue (BU) | 23.7 | 7.7 | 16.5 | 75 pcs. | 148-90039 |
| HCPM-6 | | 6 | Transparent (CL), Violet (VT) | 28.0 | 7.7 | 16.5 | 50 pcs. | 148-90040 |
| HCPM-8 | | 8 | Transparent (CL), Black (BK) | 36.6 | 7.7 | 16.5 | 50 pcs. | 148-90041 |
| HCPM Variobox 350 | | - | Transparent (CL) | - | 7.7 | 16.5 | 350 pcs. | 148-90046 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



For product specific approvals and specifications please refer to the Appendix.



Connectors - For Solid Wires

HelaCon Easy

The compact connector size fits perfect in tight spaces and it can generally be used in all kinds of junction boxes either on-wall or flush-mounted. HelaCon Easy is used to connect solid wires in the field of electrical installation.

Features and benefits

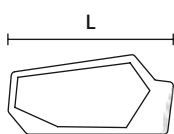
- Fast, easy, reliable push-in wire connectors for solid wires
- For connection and distribution of conductors in electrical housing
- Variety of input poles for flexible application
- Wire diameters from 1.0 up to 2.5 mm²
- Smaller diameters from 0.5 up to 1.5 mm² possible with HECE 1.5



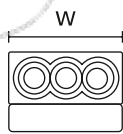
The compact design of HelaCon Easy fits perfectly in tight spaces.



One Step to the Web!



HelaCon Easy wire connector side view



HelaCon Easy wire connector front view

| MATERIAL | Polyamide 6.6 (PA66) | |
|-------------------------------------|--|---------------------------------|
| Wire Range (VDE) in mm ² | 0.5 - 1.5 mm ² solid | 1.0 - 2.5 mm ² solid |
| Max Current | 17.5 A | 24 A |
| Max Voltage | 450 V | |
| Stripping Length | 11 mm | |
| Flammability | UL 94 V2 | |
| Operating Temperature | -30 °C to +110 °C (VDE), -30 °C to +105 °C (CULus)* | -35 °C to +85 °C |

HF ✓

RoHS ✓

| TYPE | Drawing | Wire Range (VDE) in mm ² | Number of Conductors | Colour | Width (W) | Height (H) | Length (L) | Pack Cont. | Article-No. |
|------------|---------|-------------------------------------|----------------------|-----------|-----------|------------|------------|------------|-------------|
| HECE-2 | | 1.0 - 2.5 solid | 2 | Grey (GY) | 10.5 | 9.5 | 19.5 | 100 pcs. | 148-90006 |
| HECE-3 | | 1.0 - 2.5 solid | 3 | Grey (GY) | 13.5 | 9.5 | 19.7 | 100 pcs. | 148-90035 |
| HECE-4 | | 1.0 - 2.5 solid | 4 | Grey (GY) | 17.2 | 9.5 | 19.7 | 100 pcs. | 148-90008 |
| HECE-5 | | 1.0 - 2.5 solid | 5 | Grey (GY) | 21.1 | 9.5 | 19.7 | 100 pcs. | 148-90009 |
| HECE-8 | | 1.0 - 2.5 solid | 8 | Grey (GY) | 17.8 | 14.5 | 17.8 | 50 pcs. | 148-90010 |
| HECE-3x1.5 | | 0.5 - 1.5 solid | 3 | Grey (GY) | 11.4 | 8.8 | 18.5 | 100 pcs. | 148-90013 |
| HECE-5x1.5 | | 0.5 - 1.5 solid | 5 | Grey (GY) | 17.2 | 8.8 | 18.5 | 100 pcs. | 148-90015 |
| HECE-8x1.5 | | 0.5 - 1.5 solid | 8 | Grey (GY) | 26.0 | 8.8 | 18.5 | 75 pcs. | 148-90018 |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. * Deviating value for Article-No.148-90010: -30 °C to +85 °C (CULus).



For product specific approvals and specifications please refer to the Appendix.



Connectors - For Lighting Installation

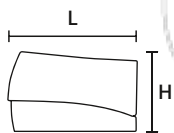
HelaCon Lux

The typical application is lighting installation, where the solid conductor from concealed cabling has to be connected to a flexible cable for lighting or other device. The 2/1 variant allows the looping through of the supply lines for additional devices.

There are two types of cable insertion port on each side of the HelaCon Lux connector, one is a conventional push in wire type suitable for solid cable, whilst the other side is suitable for flexible cable and is inserted by pressing the locking mechanism and can be released in the same way at any time. The lighting side can accept any kind of conductor and makes HelaCon Lux connectors also useful to connect devices that use flexible connecting cables such as control devices for smart home applications e.g. for blinds, fans, heating & cooling.

Features and benefits

- Best suitable to connect solid with flexible wire
- Combines push-in connector with lock / unlock spring mechanism
- For solid, stranded and fine-stranded conductors at lighting input from 0.5 to 2.5 mm²
- For solid wires from 0.75 up to 2.5 mm² on the installation side
- Use with typical housing current of 450 V / 24 A
- Either one or two inputs for solid conductor on installation side
- Very flexible application
- Tool-free application for easy, time-saving, safe connection
- Especially for overhead work and when wires are difficult to access



HelaCon Lux side view



HelaCon Lux front view



Quick installation and release of lights with HelaCon Lux.

| | |
|------------------------------|---------------------------|
| MATERIAL | Polyamide 6.6 (PA66) |
| Max Current | 24 A |
| Max Voltage | 450 V |
| Wire Range (VDE) | 0.5 - 2.5 mm ² |
| Flammability | UL94 V2 |
| Operating Temperature | -5 °C to +100 °C |

HF ✓

RoHS ✓



One Step to the Web!

| TYPE | Drawing | Number of Conductors | Colour | Width (W) | Height (H) | Length (L) | Pack Cont. | Article-No. |
|----------|---------|----------------------|------------|-----------|------------|------------|------------|-------------|
| HECL-1/1 | | 2 | Grey (GY) | 8.1 | 15.8 | 20.8 | 100 pcs. | 148-90022 |
| HECL-2/1 | | 3 | White (WH) | 9.5 | 15.8 | 20.8 | 100 pcs. | 148-90023 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



For product specific approvals and specifications please refer to the Appendix.



Cable Installation System - Cable Scout+

Cable Scout+ Rod Sets

Cable Scout+ is a professional cable routing tool which enables installers to easily route cables, saving time, even with the most challenging installations. The rods are manufactured from high quality Glass Reinforced Plastic (GRP), which enables a load carrying capacity of up to 200 kg. Cable Scout+ offers a range of features which allows the installer to illuminate, grip, inspect and retrieve by using the range of accessories. Cable Scout+ is supplied in a useful durable bag which contains the rods and accessories all in one place.

Features and benefits

- Professional cable installation tool
- Enables time savings to be achieved even with challenging installations
- Rods manufactured from high quality Glass Reinforced Plastic (GRP)
- Load carrying capacity of 200 kg
- Range of accessories enabling the installer to illuminate, grip inspect and retrieve.
- Rods & accessories contained in a useful durable storage bag



Application video:
Cable Scout+



All components stored neat and tidy with the Cable Scout+ Deluxe set.



Basic Set.



Handy Set.

| TYPE | Description | Content Rods | Rod Capacity (m) | Content Accessories | Article-No. |
|-------|--|---|------------------|---|-------------|
| CS-SB | Basic Set: designed to perform basic cable installation | 10 rods x 1 m (white) | 10.0 m | 15 cm white flexi lead, gender changer, tuff hook, mini eye | 897-90000 |
| CS-SD | Deluxe Set: the most comprehensive set aimed for carrying out larger installations | 2 rods x 1 m (white) 6 rods x 1 m (red) 2 rods x 1 m (blue) | 10.0 m | 15 cm white flexi lead, split ring, gender changer, tuff hook, mini eye, domed bullet, flat bullet, beam, single magnet | 897-90001 |
| CS-SH | Handy Set: Made up for fitting in a tool box | 1 rod x 40 cm (white) 2 rods x 40 cm (red) 1 rod x 40 cm (blue) | 1.6 m | 40 cm white flexi lead, domed bullet, mini hook, mini eye | 897-90003 |

Subject to technical changes.

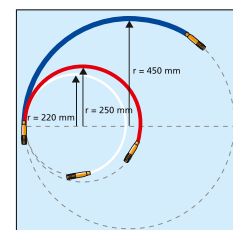
Cable Scout+ Rod Pairs



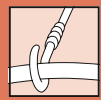
Overview of the rods selection.

| TYPE | Content Rods | Flexibility | Ø (D) | Article-No. |
|-------|--------------------------|----------------|-------|-------------|
| CS-P6 | A pair of 1 m blue rods | strong | 6.0 | 897-90007 |
| CS-PN | A pair of 1 m nylon rods | fully flexible | 5.0 | 897-90008 |
| CS-P5 | A pair of 1 m red rods | medium | 5.0 | 897-90006 |
| CS-P4 | A pair of 1 m white rods | flexible | 4.0 | 897-90005 |

All dimensions in mm. Subject to technical changes.



Overview on Cable Scout+ marginal bending radii.



Cable Installation System - Cable Scout+

Cable Scout+ Accessories

Cable Scout+ is supplied with a range of useful standard accessories. Additional accessories can be purchased separately. Cable Grips are designed to grip objects and provide reliable and time saving method of securing cables & pipes to the rods. Just open the grip by compressing the braid, push the grip over the cable or pipe and release the grip, which will contract and establish a tight grip on the cable or pipe to the rod set.

Features and benefits

- Accessory kit includes a lot of useful tools
- User can inspect, illuminate and retrieve
- Cable grips allows a very fast way to pull cables
- Whisk glides smoothly over obstacles
- LED Beam brings light into the dark
- Strong magnet lifts metallic tools up to 2.5 kg weight



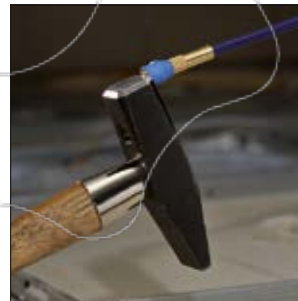
Cable Grips are available in five different sizes to attach a wide range of cable diameters.



The Cable Scout+ Beam - a perfect tool for seeing into cavities.



The whisk allows the rod to glide over obstructions easily.



The strong magnet lifts a metallic tool of up to 2.5 kg.



Cable Pulling Lubricant reduces friction during the installation of cables.

| TYPE | Drawing | Description | Article-No. |
|------------|---------|--|-------------|
| CS-SA | | Accessory Kit: Includes a 15 cm long flexi lead, gender changer, mini hook, tuff hook, mini eye, split ring, round bullet, flat bullet, single magnet, chain | 897-90004 |
| CS-ACG1630 | | Cable Grip: Suitable for diameter 1.6 - 3.0 cm | 897-90027 |
| CS-ACG0415 | | Cable Grip: Suitable for diameters 0.4 - 1.5 cm | 897-90026 |
| CS-AWL | | Large whisk: designed to glide over more uneven surfaces such as roof tiles. | 897-90019 |
| CS-AW | | Whisk: Enables cables to glide over rough and uneven surfaces. | 897-90018 |
| CS-AB | | Beam: Useful LED torch enables inspection of working area. Uses 1 x AAA Battery. | 897-90016 |
| CS-AMG2 | | Strong Magnet: Enables positioning or retrieval of items weighing up to 2.5 kg. | 897-90015 |
| CS - CPL | | Cable pulling lubricant: provides reliable protection against cable jacket damage by reducing the frictional resistance up to 80 %. | 897-90031 |

Subject to technical changes.



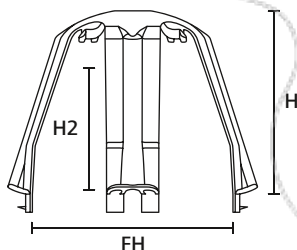
Downlight Covers - For Residential Buildings

SpotClip-I

SpotClip-I is a unique solution developed for mounting halogen and LED downlights in plasterboard and ceiling tiles. This innovative 4-leg downlight cover offers outstanding safety and installation features and is suitable for use in both panelling and plasterboard ceilings. SpotClip-I is made from non-flammable, fibre-glass reinforced polyamide, offering a range of thermal and mechanical benefits. It can be installed both during or after construction. The SpotClip-I downlight cover is an optimal solution for a wide variety of applications in existing and new buildings. It can be used in ceiling cavities with diameters of 62 to 90 mm and ensures the safety distance between the downlight, insulation foil and insulation material. SpotClip-I reduces the risk of damage caused to insulation material as a result of overheating and heat accumulation, while potentially increasing the life span of light bulbs.



Application video:
SpotClip



SpotClip-I



SpotClip-I ensures reliability and safety of lighting installations.



SpotClip-I: 4-leg downlight cover.

| | |
|------------------------------|---|
| MATERIAL | Polyamide 6.6, glass-fibre reinforced (PA66GF15%) |
| Operating Temperature | -20 °C to +120 °C |
| Flammability | material rated UL94 V0 at 1.5 mm thickness, Glow Wire Test (GWT) 960 °C |

HF ✓

RoHS ✓

| TYPE | Hole Ø (FH) min. | Hole Ø (FH) max. | Height (H) | Height (H2) | Colour | Pack Cont. | Article-No. |
|------------|------------------|------------------|------------|-------------|------------|------------|-------------|
| SpotClip-I | 62.0 | 90.0 | 82.0 | 70.0 | Black (BK) | 10 pcs. | 148-00076 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



Downlight Covers - For Residential Buildings

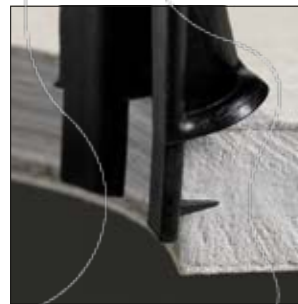
SpotClip-I

Features and benefits

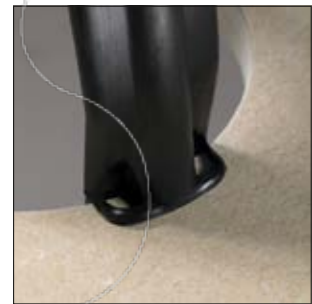
- Ensures safety distance between downlight, damp-proof foil and insulation material
- Flexible installation both during or after construction
- Additional spikes at the end of the legs prevent SpotClip shifting
- Suitable for fixing into holes from 62 - 90 mm diameter
- Maximum downlight height 70 mm
- Intelligent cable routing with eyelet at the top
- Prevents damage to insulation material caused by overheating
- Remains rigid even at higher temperatures
- Faster and easier installation and replacement of bulbs
- Tested according to EN 60598-1, EN 60598-2-2, and NF C 15100



Cable retainers hold the downlight supply cable in place.



Additional retaining spikes prevent shifting and displacement during mounting.



Support wings prevent SpotClip shifting.



1. Use the delivered tool to install SpotClip in the fixing hole as easy as possible.



2. Push the spikes into the plasterboard to prevent shifting and disconnect the tool.



3. Start the installation of the downlight in a safe way.



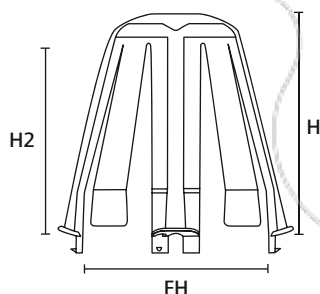
Downlight Covers - For Residential Buildings

SpotClip-II

SpotClip-II has been developed for use with large halogen and LED spotlights. Additional, flexible legs allow use with blow-in insulation material. The legs can be easily removed to facilitate cable installation. The downlight cover can be inserted easily into the ceiling cavity and offers valuable savings on installation time. SpotClip creates a reliable gap between the light bulb and the insulation material, reducing the risk of overheating and heat accumulation.



Application video:
SpotClip-II



SpotClip-II



The additional 4 legs on SpotClip-II allow use with blow-in cavity insulation.



SpotClip-II downlight cover with 4 additional flexible legs.



SpotClip-II shown using standard insulation wool.

| | |
|------------------------------|---|
| MATERIAL | Polyamide 6.6, glass-fibre reinforced (PA66GF15%) |
| Operating Temperature | -20 °C to +120 °C |
| Flammability | material rated UL94 V0 at 1.5 mm thickness, Glow Wire Test (GWT) 960 °C |



| TYPE | Hole Ø (FH) min. | Hole Ø (FH) max. | Height (H) | Height (H2) | Colour | Pack Cont. | Article-No. |
|-------------|------------------|------------------|------------|-------------|------------|------------|-------------|
| SpotClip-II | 62.0 | 90.0 | 107.0 | 95.0 | Black (BK) | 10 pcs. | 148-00098 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



Downlight Covers - For Residential Buildings

SpotClip-II

Features and benefits

- SpotClip-II has been developed for bulbs up to 95 mm height
- Ensures safety distance between downlight, damp-proof foil and insulation material
- Flexible installation during or after construction
- Additional spikes at the end of the legs prevent SpotClip shifting
- Suitable for fixing into holes from 62 - 90 mm diameter
- Remains rigid even at higher temperatures
- Flame retardant material according to UL94-V0
- Improves life span and reliability of lamps
- Tested according to EN 60598-1, EN 60598-2-2, and NF C 15100



SpotClip-I and SpotClip-II for maximum downlight heights of 70 mm and 95 mm respectively.



Retaining spikes and support wings hold SpotClip-II in the required position.



1. Use the delivered tool to install SpotClip-II in the fixing hole as easy as possible.



2. Push the spikes into the plasterboard to prevent shifting and disconnect the tool.



3. Start the installation of the downlight in a safe way.



Downlight Covers - For Residential Buildings

SpotClip-III

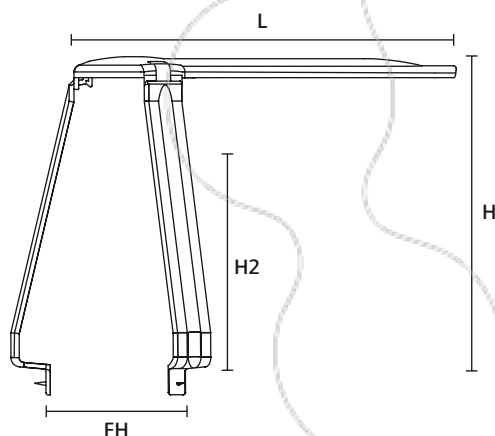
This further development of SpotClip-II allows the use of an existing power supply. In the case of a spot without power supply, this added straight leg can be cut easily and removed manually. It helps to avoid contact between the insulation and the external power supply of the spot. SpotClip-III will fit to all standard applications with solid insulation material. It is delivered flat with flexible legs. They can be locked within seconds. The height of the this mounting device is depending on the fixing hole diameter. SpotClip-III is suitable for LED and Halogen downlights with a fixing hole diameter from 62 mm to 120 mm. The maximum product height is 130 mm depending on the fixing hole diameter.



SpotClip-III for downlight application with external power supply.



SpotClip-III downlight cover- Easy-to-mount legs with one click folding function.



SpotClip-III

| | |
|------------------------------|--|
| MATERIAL | Polyamide 6.6, heat stabilised (PA66HS) |
| Operating Temperature | -40 °C to +105 °C |
| Flammability | UL 94 V2, self-extinguishing, Glow Wire Test (GWT) 960 °C |

HF ✓

RoHS ✓

| TYPE | Hole Ø (FH) min. | Hole Ø (FH) max. | Height (H)* | Height (H2)* | Length (L) | Colour | Pack Cont. | Article-No. |
|--------------|------------------|------------------|-------------|--------------|------------|------------|------------|-------------|
| SpotClip-III | 62.0 | 120.0 | 130.0 | 115.0 | 160.0 | Black (BK) | 5 pcs. | 148-00121 |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. * For fixing hole diameter 65 mm.

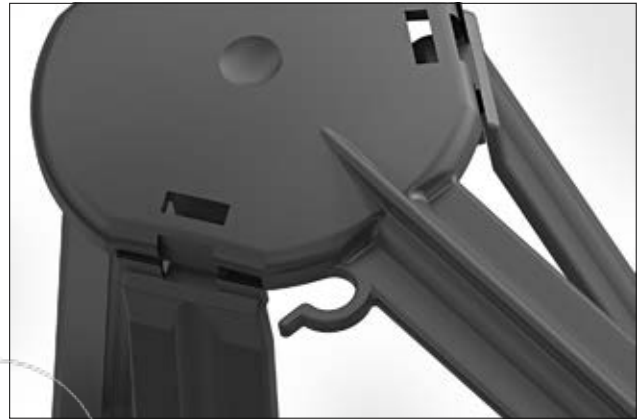


Downlight Covers - For Residential Buildings

SpotClip-III

Features and benefits

- A mounting support for the external power supply unit provides more space for the downlight installation
- Ensures safety distance between the downlight, damp-proof foil and insulation material
- Flexible installation during or after construction
- Additional spikes at the end of the legs prevent SpotClip shifting
- Prevents damage to insulation material caused by overheating
- Flame retardant material according to UL94 V2
- Improves life span and reliability of lamps
- Faster and easier installation and replacement of bulbs
- Tested according to EN 60598-1, EN 60598-2-2, and NF C 15100



One cable retainer to fix the power supply cable at the top.



Click and fix mounting mechanism for the 3 flexible legs.



New leg design combined with retaining spikes for high stability throughout installation.



1. Insert the mounting support through the fixing hole.



2. Press the spikes into the plasterboard to ensure stability of SpotClip-III.



3. Install the downlight.



4. Connect the power supply unit and fix the cable in the cable retainer.



Downlight Covers - For Residential Buildings

SpotClip-Box

SpotClip-Box has been designed especially for passive houses. This innovative downlight cover prevents contact between insulation material and the bulb. The insulation remains continuous, thus avoiding any breach in the integrity of insulation in the passive house. SpotClip-Box is suitable for LED and compact fluorescent-lamp downlights with a diameter of up to 75 mm and a maximum height of 130 mm.

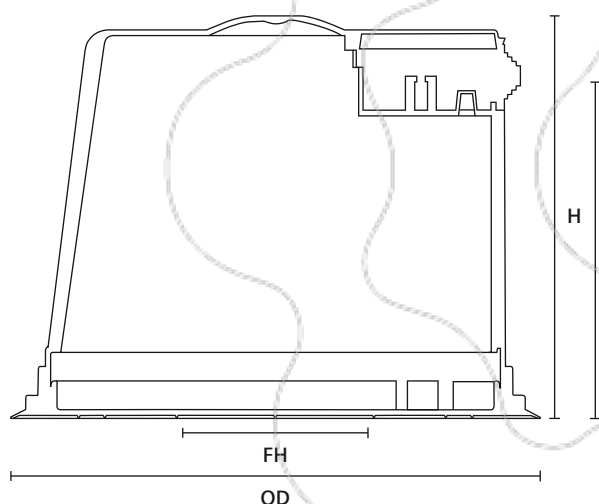
It is available as a complete kit, including HelaCon Lux wire connectors and all necessary mounting components.



SpotClip-Box - Especially designed for passive house applications.



View inside the SpotClip-Box.



SpotClip-Box

| | |
|------------------------------|--|
| MATERIAL | Polyamide 6.6, heat stabilised (PA66HS) |
| Operating Temperature | -40 °C to +105 °C |
| Flammability | UL 94 V2, self-extinguishing, Glow Wire Test (GWT) 960 °C |

HF ✓

RoHS ✓

| TYPE | Hole Ø (FH) min. | Hole Ø (FH) max. | Height (H) | Height (H2) | Outside Ø (OD) | Colour | Pack Cont. | Article-No. |
|--------------|---------------------|---------------------|---------------|----------------|----------------------|------------|---------------|-------------|
| SpotClip-Box | 75.0 | 75.0 | 140.0 | 130.0 | 184 | Black (BK) | 1 pc. | 148-00122 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



Downlight Covers - For Residential Buildings

SpotClip-Box

Features and benefits

- Suitable for all types of suspended ceilings and a variety of insulation materials
- Ensures safety distance between the downlight, damp-proof foil and insulation material
- Additional spikes at the bottom of the product prevent shifting during installation
- Connection without the need for screws, with HelaCon Lux connectors included
- Prevents damage to insulation material caused by overheating
- Improves life span and reliability of lamps
- Quick and easy one-click installation with bayonet mechanism
- Can also be used to install downlights and speakers in concrete ceilings constructed on-site
- Tested according to EN 60598-1, EN 60598-2-2, and NF C 15100



SpotClip-Box is a downlight cover supplied as a complete kit.



HelaCon Lux connected to the power supply.



Seal the complete SpotClip-box using the end cap and grommet.



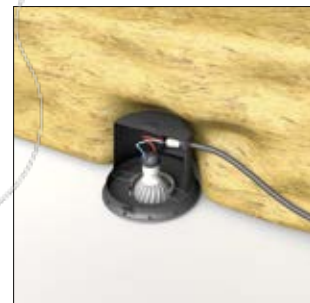
1. Mount the bottom plate over the drilled fixing hole and install the downlight housing.



2. Connect the power supply to the lamp socket with the HelaCon Lux wire connectors included and lock it with the bayonet coupling.



3. Connect the bulb to the socket and lock into the correct position.



4. Insulation material can now be applied.



Downlight Covers - For Industrial Buildings

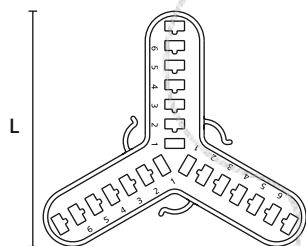
SpotClip-Kit

SpotClip-Kit has been designed for use primarily in industrial and office buildings for downlights with larger dimensions. The packaging kit consists of three legs and a mounting plate. The legs are available in two different lengths (150 mm and 240 mm). SpotClip-Kit has six selectable fixing positions in the mounting plate, making it suitable for downlights of differing dimensions. SpotClip-Kit 150 is suitable for downlights with a diameter from 100 mm up to 270 mm and with a maximum height of 140 mm. SpotClip-Kit 240 is suitable for downlights with a diameter from 170 mm up to 310 mm and with a maximum height of 230 mm. SpotClip-Kit can be combined with SpotClip-Plate.

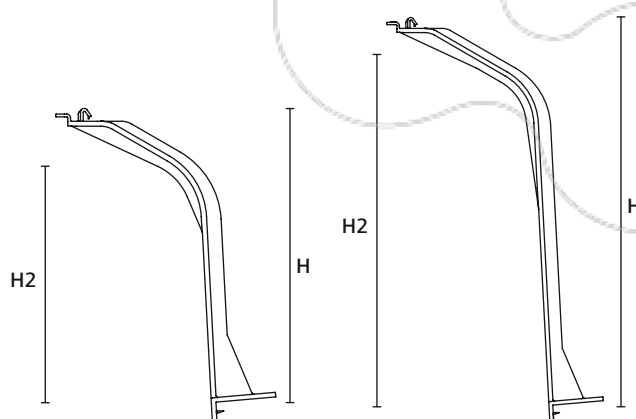
| | |
|------------------------------|--|
| MATERIAL | Polyamide 6.6, heat stabilised (PA66HS) |
| Operating Temperature | -40 °C to +105 °C |
| Flammability | UL 94 V2, self-extinguishing, Glow Wire Test (GWT) 960 °C |

HF ✓

RoHS ✓



SpotClip-Kit mounting plate

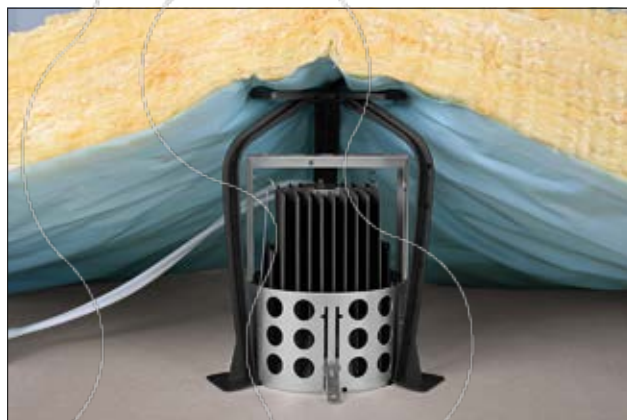


SpotClip-Kit 150 leg

SpotClip-Kit 240 leg



SpotClip-Kit 150 used in a suspended ceiling.



SpotClip-Kit 240 applied with a fixed sheet of insulating material.



SpotClip-Kit downlight cover is available in two sizes.

| TYPE | Hole Ø (FH) min. | Hole Ø (FH) max. | Height (H) | Height (H2) | Length (L) | Colour | Pack Cont. | Article-No. |
|-------------------------|------------------|------------------|------------|-------------|------------|------------|------------|-------------|
| SpotClip-Kit 150 | 100.0 | 270.0 | 157.0 | 140.0 | 120.0 | Black (BK) | 1 pc. | 148-00119 |
| SpotClip-Kit 240 | 170.0 | 310.0 | 247.0 | 230.0 | 120.0 | Black (BK) | 1 pc. | 148-00120 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



Downlight Covers - For Industrial Buildings

SpotClip-Kit

Features and benefits

- Installation from the top or bottom in all types of suspended ceilings
- Ensures safety distance between downlight, damp-proof foil and insulation material
- Flexible installation during or after construction, suitable for use in existing and new buildings
- Additional spikes at the end of the legs prevents shifting during installation
- Intelligent cable routing with eyelet at the top
- Prevents damage to insulation material caused by overheating
- Heavy-duty leg design prevents long-term deformation
- Improves life span and reliability of the lamp
- Tested according to EN 60598-1, EN 60598-2-2, and NF C 15100

SpotClip-Kit 150

| Slot | Fixing hole diameter Ø min. – Ø max. |
|------|---|
| 1 | 100–170 |
| 2 | 120–190 |
| 3 | 140–210 |
| 4 | 160–230 |
| 5 | 180–250 |
| 6 | 200–270 |

All dimensions in mm. Subject to technical changes.

SpotClip-Kit 240

| Slot | Fixing hole diameter Ø min. – Ø max. |
|------|---|
| 1 | 170–210 |
| 2 | 190–230 |
| 3 | 210–250 |
| 4 | 230–270 |
| 5 | 250–290 |
| 6 | 270–310 |

All dimensions in mm. Subject to technical changes.



SpotClip-Kit 150 is used for fixing hole diameters from 100 mm to 270 mm.



SpotClip-Kit 240 is used for fixing hole diameters from 170 mm to 310 mm.



The feet position can be very easily adjusted using the click and release system.



A robust design combined with retaining spikes ensures high stability.



SpotClip-Kit 150 is delivered as a self-assembly set.



SpotClip-Kit 240 is delivered as a self-assembly set.



1. Squeeze the legs and insert the SpotClip-Kit through the fixing hole.



2. Press the retaining spikes into the plasterboard to secure the legs.



3. Install the downlight according to the manufacturer's user manual.



4. Connect the downlight to the power supply and fix the cable into the routing eyelet.



Downlight Covers - For Industrial Buildings

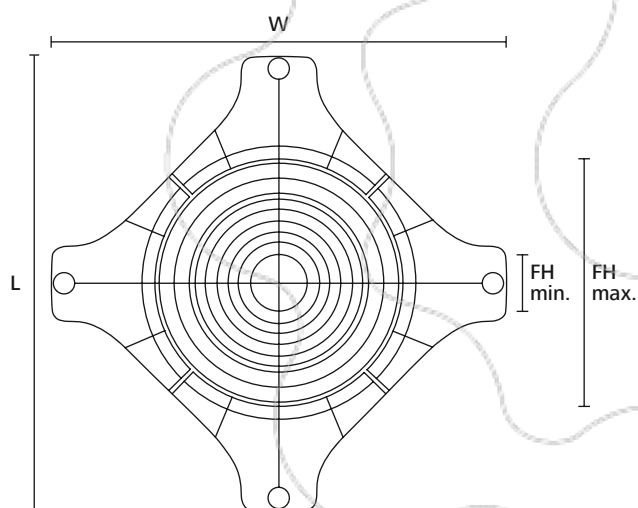
SpotClip-Plate

SpotClip-Plate has been developed especially for installation in suspended grid ceilings in order to avoid damage and cracks in the ceiling plates caused by the weight of heavy downlights. The product dimensions of 592 mm x 592 mm mean that it fits perfectly into standard grid ceilings with a width of 600 mm. The pre-cut design makes it suitable for installation of the most commonly used downlights with a diameter from 75 mm to 314 mm.

Please check if your grid ceiling size corresponds to the side length of 600 mm. Depending on the manufacturer and country this can vary between 600 mm and 625 mm.



SpotClip-Plate has been developed for applications with heavy downlights in suspended grid ceilings.



SpotClip-Plate



SpotClip-Plate fits perfect into standard grid ceilings with a width of 600 mm.

| | |
|------------------------------|--|
| MATERIAL | Polyamide 6.6, heat stabilised (PA66HS) |
| Operating Temperature | -40 °C to +105 °C |
| Flammability | UL 94 V2, self-extinguishing, Glow Wire Test (GWT) 960 °C |

HF ✓

RoHS ✓

| TYPE | Hole Ø (FH) min. | Hole Ø (FH) max. | Length (L) | Width (W) | Colour | Pack Cont. | Article-No. |
|---------------------------|---------------------|---------------------|---------------|--------------|------------|---------------|-------------|
| SpotClip-Plate 600 | 75.0 | 314.0 | 592.0 | 592.0 | Black (BK) | 10 pcs. | 148-00117 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



Downlight Covers - For Industrial Buildings

SpotClip-Plate

Features and benefits

- SpotClip-Plate distributes the load of the downlight equally across the suspended ceiling construction
- Flexible installation during or after construction, useful for both existing and new buildings
- Remains rigid even at higher temperature
- Flame retardant material according to UL94-V2
- Improves life span and reliability of lamps
- Faster and easier installation and replacement of bulbs
- Tested according to EN 60598-1, EN 60598-2-2, and NF C 15100



SpotClip-Plate comes in 16 pre-cut fixing hole diameter sizes.



Choose the required diameter and cut with a handsaw.



Use the SpotClip-Plate as a stencil to cut the fixing hole into the ceiling plate.



1. Place the SpotClip-Plate in position.



2. Cut the ceiling plate.



3. Insert the downlight through the cutted hole.



4. Mount the downlight.



SpotClip-Plate - Further Accessories

SpotClip-Caps

SpotClip-Plate can be used to ensure the safety distance between the downlight and insulation material. We offer three different solutions to prevent damage to insulation material caused by overheating of the bulb.

1. Place two plates on top of each other and use IRL standard tubes between these to achieve the required distance
2. Use SpotClip-Caps and IRL standard tubes to achieve the required distance between the plate and insulation material
3. Combine SpotClip-Kit with SpotClip-Plate for a fast solution

Features and benefits

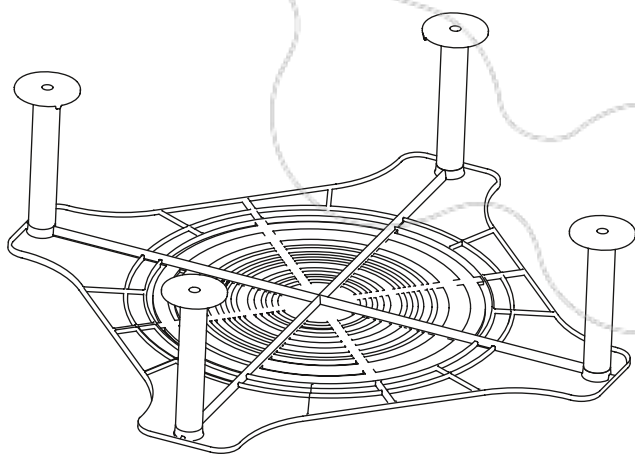
- Different solutions to ensure safety distance between downlight, damp-proof foil and insulation material
- SpotClip-Plate can be combined with SpotClip-Kit, SpotClip-Caps or placed on top of each other with IRL standard tubes to ensure the required distance
- Prevents damage to insulation material caused by overheating
- Improves life span and reliability of lamps
- Faster and easier installation and replacement of bulbs



SpotClip-Plate with insulation material - Plate-to-Plate solution.



SpotClip-Plate combined with SpotClip-Caps.



SpotClip-Plate in combination with IRL standard tubes and SpotClip-Caps



SpotClip-Plate combined with SpotClip-Kit, shown with insulation material.

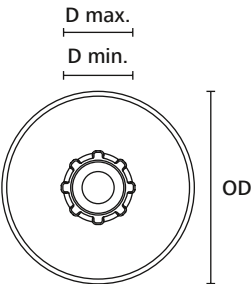


SpotClip-Plate - Further Accessories

SpotClip-Caps



SpotClip-Caps offered in a pack of 40 pieces.



SpotClip-Cap

| | |
|-----------------------|--|
| MATERIAL | Polyamide 6.6, heat stabilised (PA66HS) |
| Operating Temperature | -40 °C to +105 °C |
| Flammability | UL 94 V2, self-extinguishing, Glow Wire Test (GWT) 960° C |



| TYPE | Outside Ø (OD) | Ø D min. | Ø D max. | Colour | Pack Cont. | Article-No. |
|---------------------|----------------------|-------------|-------------|------------|---------------|-------------|
| SpotClip-Caps 16/25 | 60.0 | 16.0 | 22.0 | Black (BK) | 40 pcs. | 148-00102 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.