

## H02G

**INSTALLATION OF ELECTRIC CABLES OR LINES, OR OF COMBINED OPTICAL AND ELECTRIC CABLES OR LINES (distribution points incorporating switches [H02B](#); guiding telephone cords [H04M 1/15](#); cable ducts or mountings for telephone or telegraph exchange installations [H04Q 1/06](#))**

### Definition statement

*This place covers:*

Installation of communication cables or lines, including those comprising a combination of optical and electrical conductors, or of lightning conductors as well as installation of power cables or lines.

### References

#### Limiting references

*This place does not cover:*

Installation of purely optical cables	<a href="#">G02B 6/4401</a> , <a href="#">G02B 6/46</a>
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### Glossary of terms

*In this place, the following terms or expressions are used with the meaning indicated:*

"electric cable"	includes cables comprising optical conductors, e.g. fibres, in combination with electrical conductors
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## H02G 1/00

**Methods or apparatus specially adapted for installing, maintaining, repairing or dismantling electric cables or lines**

### Definition statement

*This place covers:*

- Installation planning
- Tools for preparing walls, floor and ceilings, e.g. drilling tools
- Templates for positioning electrical boxes
- Laying cables
- Removing insulation from cables
- Joining or terminating cables

## H02G 1/02

**for overhead lines or cables**

### Definition statement

*This place covers:*

- Planning of high voltage electrical networks
- Maintenance and repair of overhead lines
- Apparatus for workers, e.g. robots or carriages travelling along the lines
- Specialized vehicles
- Cleaning of electrical lines

## References

### Informative references

Attention is drawn to the following places, which may be of interest for search:

Cleaning of insulators	<a href="#">H01B 17/52</a>
Earthing sticks for live working	<a href="#">H01R 4/64</a>

## H02G 1/04

for mounting or stretching (wire stretchers in general [B25B 25/00](#))

### Definition statement

This place covers:

- Ground vehicles or Helicopter stringing
- Methods for stringing
- Devices temporarily fixed to pole for stringing lines

## References

### Informative references

Attention is drawn to the following places, which may be of interest for search:

Wire stretchers in general Installation of trolley lines	<a href="#">B25B 25/00</a> , <a href="#">B60M 1/28</a>
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## H02G 1/06

for laying cables, e.g. laying apparatus on vehicle (combined with trench digging or back-filling machines or dredgers [E02F 5/00](#))

### Definition statement

This place covers:

The process of laying cables.

## References

### Limiting references

This place does not cover:

Installations of electric cables or lines in or on the ground or water	<a href="#">H02G 9/00</a>
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### Informative references

Attention is drawn to the following places, which may be of interest for search:

Trench digging or back-filling machines or dredgers	<a href="#">E02F 5/00</a>
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## H02G 1/08

through tubing or conduit, e.g. rod or draw wire for pushing or pulling  
 {(inserting electrical cables into tubes using wallbores [E21B 17/206](#); for optical cables [G02B 6/4401](#))}

### Definition statement

*This place covers:*

Not only inserting wires into conduits, but also removing wires from conduit where conduit stays intact.

### References

#### Limiting references

*This place does not cover:*

Inserting cables into tubes using drills	<a href="#">E21B 17/206</a>
Installing optical cables in ducts	<a href="#">G02B 6/4463</a>
Apparatus or processes for salvaging material from cables where cables are cut and destroyed	<a href="#">H01B 15/00</a>

## H02G 1/12

for removing insulation or armouring from cables, e.g. from the end thereof  
 (pliers in general [B25B](#); cutters in general [B26B](#))

### References

#### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Pliers in general	<a href="#">B25B</a>
Cutters in general	<a href="#">B26B</a>

## H02G 1/1207

{the cutting element not rotating about the wire or cable (making longitudinal and transverse or helical cut [H02G 1/1229](#))}

### References

#### Limiting references

*This place does not cover:*

Making a longitudinal and transverse or helical cut	<a href="#">H02G 1/1229</a>
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**H02G 1/1221**

{the cutting element rotating about the wire or cable (making longitudinal and transverse or helical cut [H02G 1/1229](#))}

**References****Limiting references**

*This place does not cover:*

The cutting element making a longitudinal and a transverse or helical cut	<a href="#">H02G 1/1229</a>
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**H02G 1/1251**

{the cutting element not rotating about the wire or cable (making longitudinal and transverse or helical cut [H02G 1/1268](#))}

**References****Limiting references**

*This place does not cover:*

The cutting element making a longitudinal and a transverse or helical cut	<a href="#">H02G 1/1268</a>
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**H02G 1/1265**

{the cutting element rotating about the wire or cable (making longitudinal and transverse or helical cut [H02G 1/1268](#))}

**References****Limiting references**

*This place does not cover:*

Making a longitudinal and transverse or helical cut	<a href="#">H02G 1/1268</a>
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**H02G 1/14**

for joining or terminating cables (joining electric conductors [H01R 43/00](#))

**Definition statement**

*This place covers:*

The process of joining (end-to end) or bundling (side-by-side) or terminating cables

**References****Limiting references**

*This place does not cover:*

Details of the cable terminations	<a href="#">H02G 15/02</a>
Details of the cable joints	<a href="#">H02G 15/08</a>
Joining electric conductors	<a href="#">H01R 43/00</a>

## H02G 3/00

Installations of electric cables or lines in or on buildings, equivalent structures or vehicles (installations of bus-bars [H02G 5/00](#); overhead installations [H02G 7/00](#); installations in or on the ground [H02G 9/00](#); channels or vertical ducts for receiving utility lines [E04F 17/08](#); wiring of electric apparatus in general [H05K](#))

### Definition statement

*This place covers:*

- Complete wiring of buildings or rooms
- Pre-wired installation
- Wirings for modular walls

### References

#### Limiting references

*This place does not cover:*

Installations of bus-bars	<a href="#">H02G 5/00</a>
Overhead installations	<a href="#">H02G 7/00</a>
Installations in or on the ground	<a href="#">H02G 9/00</a>
Channels or vertical ducts for receiving utility lines	<a href="#">E04F 17/08</a>

#### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Supports for pipes, cables or protective tubing, specially adapted for supporting the pipes all along their length, e.g. pipe channels or ducts	<a href="#">F16L 3/26</a>
Wiring of electric apparatus in general	<a href="#">H05K</a>

## H02G 3/02

### Details

#### Definition statement

*This place covers:*

Marking or labelling of cable channels

### References

#### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Labels	<a href="#">G09F 3/00</a>
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## H02G 3/04

Protective tubings or conduits {or channels or other supports} (pipes or tubings in general [F16L](#))

### References

#### Informative references

Attention is drawn to the following places, which may be of interest for search:

Pipes or tubings in general	<a href="#">F16L</a>
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## H02G 3/0406

{Details thereof (installation or suspension of conduit channels and other supports [H02G 3/263](#))}

### Definition statement

This place covers:

- Manufacture of cable channels
- End pieces
- Dividers inside channels

### References

#### Limiting references

This place does not cover:

Installation or suspension of conduit channels and other supports	<a href="#">H02G 3/263</a>
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## H02G 3/0412

{Heat or fire protective means (for fire in electric circuits [A62C 3/16](#))}

### Definition statement

This place covers:

- Protection for fire coming from outside or inside.
- Use of intumescent materials

### References

#### Informative references

Attention is drawn to the following places, which may be of interest for search:

For fire in electric circuits	<a href="#">A62C 3/16</a>
For tubing in general	<a href="#">F16L 5/04</a>

### Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

Intumescent	Material expanding in case of fire or heat to fill air gaps
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**H02G 3/0418****{Covers or lids; Their fastenings}****Definition statement***This place covers:*

Covers or lids only for cable channels, not for electrical boxes, housing or enclosures.

**H02G 3/0425****{Plinths (borders for use between floor or ceiling and wall [E04F 19/04](#))}****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Borders for use between floor or ceiling and wall	<a href="#">E04F 19/04</a>
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**H02G 3/0437****{Channels}****Definition statement***This place covers:*

Non circular channels or raceways or wire harness fully enclosing the cables

**References****Limiting references***This place does not cover:*

Tubings for cables	<a href="#">H02G 3/0462</a>
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**Informative references***Attention is drawn to the following places, which may be of interest for search:*

Pipe channels or ducts	<a href="#">F16L 3/26</a>
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**H02G 3/045****{provided with perforations or slots permitting introduction or exit of wires}****Definition statement***This place covers:*

Raceways or conduits or wire harness having side exits for cables, e.g. breakable parts.

**H02G 3/0456****{Ladders or other supports}****Definition statement***This place covers:*

Open supports for cables or wire harness

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

For pipes or ducts in general	<a href="#">F16L 3/22</a>
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**H02G 3/0462****{Tubings, i.e. having a closed section}****Definition statement***This place covers:*

Single piece channels

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Pipes placed side by side in contact with each other	<a href="#">F16L 3/23</a>
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**H02G 3/0468****{Corrugated}****Definition statement***This place covers:*

Tubings having radial undulations

**H02G 3/0475****{formed by a succession of articulated units}****References****Limiting references***This place does not cover:*

Between movable parts	<a href="#">H02G 11/00</a>
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**H02G 3/0481**

{with a circular cross-section ([H02G 3/0468](#), [H02G 3/0475](#) take precedence)}

**References****Limiting references**

*This place does not cover:*

Corrugated tubings	<a href="#">H02G 3/0468</a>
Tubings formed by a succession of articulated units	<a href="#">H02G 3/0475</a>

**H02G 3/0487**

{with a non-circular cross-section ([H02G 3/0468](#), [H02G 3/0475](#) take precedence)}

**References****Limiting references**

*This place does not cover:*

Corrugated tubings	<a href="#">H02G 3/0468</a>
Tubings formed by a succession of articulated units	<a href="#">H02G 3/0475</a>

**H02G 3/0493**

{Service poles}

**Definition statement**

*This place covers:*

Vertical ducts

**References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Medical bed nursing arrangements	<a href="#">A61G 12/00</a>
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**H02G 3/06**

**Joints for connecting lengths of protective tubing {or channels}, to each other or to casings, e.g. to distribution boxes; Ensuring electrical continuity in the joint**

**Definition statement**

*This place covers:*

Only cylindrical conduits joint

## References

### Informative references

Attention is drawn to the following places, which may be of interest for search:

Connecting general pipes to walls	<a href="#">F16L 5/00</a>
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## H02G 3/065

{with means biting into the conductor-insulation, e.g. teeth-like elements or gripping fingers ([H02G 3/0675](#), [H02G 3/0683](#) take precedence)}

## References

### Limiting references

This place does not cover:

Joints for connecting tubing to casing with bolts operating in a direction parallel to the conductors	<a href="#">H02G 3/0675</a>
Joints for connecting tubing to casing with bolts operating in a direction transverse to the conductors	<a href="#">H02G 3/0683</a>

## H02G 3/0658

{with means constricting the conductor-insulation ([H02G 3/065](#), [H02G 3/0675](#), [H02G 3/0683](#) take precedence)}

## References

### Limiting references

This place does not cover:

Joints for connecting tubing to casing with means biting into the conductor-insulation, e.g. teeth-like elements or gripping fingers	<a href="#">H02G 3/065</a>
Joints for connecting tubing to casing with bolts operating in a direction parallel to the conductors	<a href="#">H02G 3/0675</a>
Joints for connecting tubing to casing with bolts operating in a direction transverse to the conductors	<a href="#">H02G 3/0683</a>

## H02G 3/0666

{with means clamping the armour of the conductor ([H02G 3/0675](#), [H02G 3/0683](#) take precedence)}

## References

### Limiting references

This place does not cover:

Joints for connecting tubing to casing with bolts operating in a direction parallel to the conductors	<a href="#">H02G 3/0675</a>
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Joints for connecting tubing to casing with bolts operating in a direction transverse to the conductors	<a href="#">H02G 3/0683</a>
Electrically connecting said armour	<a href="#">H02G 15/068</a>

## H02G 3/0675

{with bolts operating in a direction parallel to the conductors}

### References

#### Limiting references

*This place does not cover:*

Corrugated tubings	<a href="#">H02G 3/0691</a>
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## H02G 3/0683

{with bolts operating in a direction transverse to the conductors}

### References

#### Limiting references

*This place does not cover:*

Corrugated tubings	<a href="#">H02G 3/0691</a>
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## H02G 3/0691

{Fixing tubing to casing by auxiliary means co-operating with indentations of the tubing, e.g. with tubing-convolutions}

### Definition statement

*This place covers:*

Connection of corrugated tubings

## H02G 3/08

Distribution boxes; Connection or junction boxes (cable terminations  
[H02G 15/02](#))

### References

#### Limiting references

*This place does not cover:*

Cable terminations	<a href="#">H02G 15/02</a>
Electrical connections	<a href="#">H01R 13/00</a>

**H02G 3/081****{Bases, casings or covers}****Definition statement***This place covers:*

Constructional details of boxes, housings and enclosures

**H02G 3/083****{Inlets}****Definition statement***This place covers:*

Cable entry into electrical box, housings and enclosures

Through holes or openings

Grommets

**Glossary of terms***In this place, the following terms or expressions are used with the meaning indicated:*

Cable fitting	cable entry
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**H02G 3/085****{including knock-out or tear-out sections}****Definition statement***This place covers:*

The cable entry is closed before use by a removable part

**H02G 3/086****{Assembled boxes}****Definition statement***This place covers:*

Connection of two boxes, housings and enclosures or part of boxes in order to increase inner volume

**H02G 3/088****{Dustproof, splashproof, drip-proof, waterproof, or flameproof casings or inlets}****Definition statement***This place covers:*

- Fire or heat protection of boxes, housings and enclosures
- Sound protection
- Water ingress protection, e.g. with rubber joint

- Evacuation of water from inside of box, housings and enclosures

## H02G 3/105

{in association with a plinth, channel, raceway or similar}

### Definition statement

*This place covers:*

Mounting of boxes, housings and enclosures on raceway or at a distance of raceway

## H02G 3/12

for flush mounting

### Definition statement

*This place covers:*

Boxes, housings and enclosures mounted inside walls

### References

#### Informative references

Attention is drawn to the following places, which may be of interest for search:

Pre establishment of boxes in concrete	<a href="#">E04G 15/04</a> , <a href="#">E04G 15/06</a>
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## H02G 3/121

{in plain walls}

### Definition statement

*This place covers:*

Boxes, housings and enclosures are covered by wall material on sides and bottom

## H02G 3/123

{in thin walls}

### Definition statement

*This place covers:*

Boxes, housings and enclosures are inserted and fixed into a hole in dry walls

## H02G 3/125

{with supporting bar extending between two separate studs of a wall frame}

### Definition statement

*This place covers:*

Boxes, housings and enclosures mounted between two studs behind dry wall or ceiling panels

**H02G 3/126****{with supporting means for mounting on a single wall stud}****Definition statement***This place covers:*

- Boxes, housings and enclosures mounted on one stud behind dry wall or ceiling panels
- Boxes, housings and enclosures comprising nail or screw passage

**H02G 3/128****{in plinths, channels, raceways or similar}****Definition statement***This place covers:*

Flush mounted boxes, housings and enclosures into raceways

**H02G 3/16****structurally associated with support for line-connecting terminals within the box (terminals [H01R 9/00](#))****Definition statement***This place covers:*

Provisions inside the boxes, housings and enclosures for cable connecting

**References****Limiting references***This place does not cover:*

Details of connectors, e.g. terminals	<a href="#">H01R 9/00</a> , <a href="#">H01R 13/00</a>
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**H02G 3/18****providing line outlets****Definition statement***This place covers:*

Fastening of apparatus into electrical boxes, housings and enclosures

**H02G 3/185****{Floor outlets and access cups}****References****Limiting references***This place does not cover:*

Manholes or similar in outside ground	<a href="#">H02G 9/00</a>
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## H02G 3/20

Ceiling roses {or other lighting sets}

### References

#### *Informative references*

Attention is drawn to the following places, which may be of interest for search:

Wall, ceiling, or floor base for lamps	<a href="#">F21V 21/02</a>
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## H02G 3/22

Arrangements for leading cables or lines through walls, floors, or ceilings, e.g. into building (devices for use where pipes, cables or protective tubing pass through walls or partitions [F16L 5/00](#); lead-in or lead-through insulators [H01B 17/26](#); insulating tubes or sleeves [H01B 17/58](#))

### References

#### *Informative references*

Attention is drawn to the following places, which may be of interest for search:

Pipes, cables or protective tubing passing through walls	<a href="#">F16L 5/00</a>
Lead-in or lead-through insulators	<a href="#">H01B 17/26</a>
insulating tubes or sleeves	<a href="#">H01B 17/58</a>

## H02G 3/24

{Installation of lines or cables on walls, ceilings or floors by means of insulators (insulators [H01B 17/00](#))}

### References

#### *Informative references*

Attention is drawn to the following places, which may be of interest for search:

Insulators in general	<a href="#">H01B 17/00</a>
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## H02G 3/26

{Installations of cables, lines, or separate protective tubing therefor directly on or in walls, ceilings, or floors (by means of insulators [H02G 3/24](#); supports for pipes, cables or protective tubing [F16L 3/00](#); hose-clips [F16L 33/02](#))}

### References

#### *Limiting references*

This place does not cover:

Installations of cables by means of insulators	<a href="#">H02G 3/24</a>
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**Informative references**

Attention is drawn to the following places, which may be of interest for search:

Supports for pipes, cables or protective tubing	<a href="#">F16L 3/00</a>
Hose clips	<a href="#">F16L 33/02</a>

**Special rules of classification**

This group is not used for classification anymore

**H02G 3/28**

{Installations of cables, lines, or separate protective tubing therefor in conduits or ducts pre-established in walls, ceilings or floors}

**Special rules of classification**

This group is not used for classification anymore

**H02G 3/30**

Installations of cables or lines on walls, floors or ceilings (supports for pipes, cables or protective tubing [F16L 3/00](#); hose clips [F16L 33/02](#))

**Definition statement**

*This place covers:*

Means for fastening cables to walls

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Support for pipes, cables or protective tubing	<a href="#">F16L 3/00</a>
Hose clips	<a href="#">F16L 33/02</a>

**H02G 3/32**

using mounting clamps

**Definition statement**

*This place covers:*

Clips, anchors, bands directly in contact with cables

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Hose clips	<a href="#">F16L 33/02</a>
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## H02G 3/34

using separate protective tubing

### Definition statement

*This place covers:*

Mounting of cable conduits

## H02G 3/36

Installations of cables or lines in walls, floors or ceilings ([H02G 3/22](#) takes precedence)

### Definition statement

*This place covers:*

Holding means for cables in walls

## H02G 3/385

{in modular floors, e.g. access floors}

### References

#### Informative references

Attention is drawn to the following places, which may be of interest for search:

Construction of modular floors	<a href="#">E04F 15/02</a>
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## H02G 3/388

{in modular walls, e.g. wall panels}

### References

#### Limiting references

*This place does not cover:*

Structure of wall panels	<a href="#">E04B 2/7416</a>
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## H02G 5/00

Installations of bus-bars

### Definition statement

*This place covers:*

- Installation of flat, laminated or tubular non-insulated busbars, mostly for high current/voltage applications.
- Medium to very high voltage, gas-insulated tubular busbars arranged in a metallic casing.

### Relationships with other classification places

- When the focus is on details of the electrical connections between different parts and not so much the installation of the busbars, these documents should be classified instead in [H01R 3/00](#).

- When the subject matter is a supporting insulator for very heavy busbars and not the busbar itself, it should be classified in [H01B 17/18](#) and not in [H02G 5/025](#).
- The subject matter might be double classified in [H02B 1/20](#) or [H02B 1/21](#) when related to the installation in electric cabinets.
- Details involving the busbar casing and means for detecting mechanical or electrical defects are normally also classified in [H02B 13/045](#) and [H02B 13/065](#).

## References

### Limiting references

*This place does not cover:*

Installation of cables	<a href="#">H02G 3/00</a>
Cable fittings	<a href="#">H02G 15/00</a>
Power rails for vehicles	<a href="#">B60M 1/30</a>
Electric conductors	<a href="#">H01B</a>

### Application-oriented references

*Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:*

Power rails for vehicles	<a href="#">B60M 1/30</a>
Lighting systems having parts displaceable along a guiding element, normally a busbar	<a href="#">F21V 21/34</a>

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Flat insulated conductors	<a href="#">H01B 7/08</a>
Busbar connections in ac/dc conversion	<a href="#">H02M 7/003</a>
Printed high current conductors	<a href="#">H05K 1/0263</a>
Wiring on insulating boards	<a href="#">H05K 7/08</a>

## H02G 5/04

**Partially-enclosed installations, e.g. in ducts and adapted for sliding or rolling current collection (non-rotary current collectors [H01R 41/00](#))**

## References

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Non-rotary current collectors	<a href="#">H01R 41/00</a>
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## H02G 7/00

Overhead installations of electric lines or cables (installations of bus-bars [H02G 5/00](#); trolley wires or contact lines for electric railways [B60M](#); fastening conductors to insulators [H01B 17/00](#), e.g. [H01B 17/06](#), [H01B 17/16](#), [H01B 17/22](#); protection against abnormal electric conditions [H01H](#); hook contacts for temporary connections to overhead lines [H01R 11/14](#))

### Definition statement

*This place covers:*

- Installation of field power lines
- Fastening to masts and poles
- Warning devices
- Birds or rodents deterring means

### References

#### Limiting references

*This place does not cover:*

Installations of bus-bars	<a href="#">H02G 5/00</a>
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#### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Trolley wires or contact lines for electric railways	<a href="#">B60M 1/00</a>
Fastening conductors to insulators	<a href="#">H01B 17/00</a>
Protection against abnormal electric conditions	<a href="#">H01H</a>
Hook contacts for temporary connections to overhead lines	<a href="#">H01R 11/14</a>

## H02G 7/02

Devices for adjusting or maintaining mechanical tension, e.g. take-up device

### Definition statement

*This place covers:*

Weight or spring activated means pulling on the cables

### References

#### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Arrangements for supporting or suspending trolley wires	<a href="#">B60M 1/20</a>
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## H02G 7/04

### Arrangements or devices for relieving mechanical tension

#### Definition statement

*This place covers:*

Means releasing the cables in case of mechanical overload

#### References

##### *Informative references*

*Attention is drawn to the following places, which may be of interest for search:*

Arrangements for supporting or suspending trolley wires	<a href="#">B60M 1/20</a>
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## H02G 7/05

### Suspension arrangements or devices for electric cables or lines

#### Definition statement

*This place covers:*

End or middle fastening of cables along poles

#### References

##### *Limiting references*

*This place does not cover:*

Devices for stringing cables between poles	<a href="#">H02G 1/04</a>
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## H02G 7/053

{Suspension clamps and clips for electric overhead lines not suspended to a supporting wire}

#### Definition statement

*This place covers:*

Fastening of cables directly between two poles,

## H02G 7/056

{Dead-end clamps}

#### Definition statement

*This place covers:*

Fastening of cables ends to poles.

## **H02G 7/06**

**Suspensions for lines or cables along a separate supporting wire, e.g. S-hook**

### **Definition statement**

*This place covers:*

A separate mechanical wire is used as parallel supporting device

## **H02G 7/08**

**Members clamped to the supporting wire or to the line or cable**

### **Definition statement**

*This place covers:*

One side of the supporting means acts as a clamp

## **H02G 7/10**

**Flexible members or lashings wrapped around both the supporting wire and the line or cable**

### **Definition statement**

*This place covers:*

Bands or wire loops,

## **H02G 7/12**

**Devices for maintaining distance between parallel conductors, e.g. spacer**

### **Definition statement**

*This place covers:*

Rigid devices with a given length are fixed between two lines

## **H02G 7/125**

**{Damping spacers}**

### **Definition statement**

*This place covers:*

Device with variable length fixed between two line

## **H02G 7/14**

**Arrangements or devices for damping mechanical oscillations of lines, e.g. for reducing production of sound {(damping spacers [H02G 7/125](#))}**

### **Definition statement**

*This place covers:*

Weights or dynamic devices added to lines

## References

### Limiting references

*This place does not cover:*

Damping spacers	<a href="#">H02G 7/125</a>
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## H02G 7/16

**Devices for removing snow or ice from lines or cables (from insulators [H01B 17/52](#))**

### Definition statement

*This place covers:*

Mechanical or electrical devices, eventually using transported electricity

## References

### Limiting references

*This place does not cover:*

Removing snow or ice from insulators	<a href="#">H01B 17/52</a>
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## H02G 7/18

**Devices affording mechanical protection in the event of breakage of a line or cable, e.g. net for catching broken lines**

### Definition statement

*This place covers:*

Device placed under the lines for receiving broken lines

## H02G 7/20

**Spatial arrangements or dispositions of lines or cables on poles, posts, or towers (construction of poles, posts or towers [E04H 12/22](#))**

### Definition statement

*This place covers:*

- Crossarms
- Spacial disposition of parallel lines

## References

### Limiting references

*This place does not cover:*

Construction of poles, posts or towers	<a href="#">E04H 12/22</a>
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**H02G 9/00**

Installations of electric cables or lines in or on the ground or water (cathodic protection [C23F 13/02](#); detection of buried cables [G01V](#))

**References****Limiting references**

*This place does not cover:*

Detection of buried cables	<a href="#">G01V</a>
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**Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Cathodic protection	<a href="#">C23F 13/02</a>
Installations of optical cables in or on the ground or water	<a href="#">G02B 6/46</a>

**H02G 9/02**

laid directly in or on the ground, river-bed or sea-bottom; Coverings therefor, e.g. tile

**Definition statement**

*This place covers:*

Cables installed in or on the ground without any protection

**References****Limiting references**

*This place does not cover:*

The process of laying cables in or on the ground	<a href="#">H02G 1/06</a>
The process of laying cables in or on the sea-bottom	<a href="#">H02G 1/10</a>
Coverings for cables laid in or on the ground	<a href="#">H02G 9/025</a>

**H02G 9/06**

in underground tubes or conduits; Tubes or conduits therefor

**References****Limiting references**

*This place does not cover:*

The process of laying cables in a tube or conduit	<a href="#">H02G 1/08</a>
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## H02G 9/10

in cable chambers, e.g. in manhole, in handhole (building aspects of cable chambers Section [E](#), e.g. [E04H 5/06](#))

### References

#### Informative references

Attention is drawn to the following places, which may be of interest for search:

Manholes or similar	<a href="#">E02D 29/12</a>
Building aspects of cable chambers	<a href="#">E04H 5/06</a>

## H02G 9/12

supported on or from floats, e.g. in water (floating cables [H01B 7/12](#))

### Definition statement

*This place covers:*

Installations of cables in water

### References

#### Limiting references

*This place does not cover:*

Floating cables per se	<a href="#">H01B 7/12</a>
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#### Informative references

Attention is drawn to the following places, which may be of interest for search:

The process of laying cables in water	<a href="#">H02G 1/10</a>
Submarine cables per se	<a href="#">H01B 7/14</a>

## H02G 11/00

Arrangements of electric cables or lines between relatively-movable parts ({storing means for coiled material specially adapted for repeatedly paying-out and re-storing length of material for particular purposes [B65H 75/34](#)} ; current collectors [H01R](#){; winding-up telephone cord [H04M 1/15](#)})

### Definition statement

*This place covers:*

Transmission of electric energy between relatively-movable parts through flexible conductors

### References

#### Limiting references

*This place does not cover:*

Supplying energy to the end effector of a robot or similar manipulator	<a href="#">B25J 19/0025</a>
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Current collectors for power supply lines of electrically-propelled vehicles	<a href="#">B60L 5/00</a>
Flexible or turnable connectors	<a href="#">H01R 35/00</a>
Collectors for maintaining electrical contact between moving and stationary parts	<a href="#">H01R 41/00</a>
Winding up of telephone cord	<a href="#">H04M 1/15</a>

### **Informative references**

Attention is drawn to the following places, which may be of interest for search:

Tubings for conductors	<a href="#">H02G 3/0462</a>
Storing means for coiled material specially adapted for repeatedly paying-out and re-storing length of material for particular purposes	<a href="#">B65H 75/34</a>

## **H02G 11/003**

**{using gravity-loaded or spring-loaded loop}**

### **Definition statement**

*This place covers:*

Supply cables for gantry crane or similar

## **H02G 11/006**

**{using extensible carrier for the cable, e.g. self-coiling spring (extensible conductors or cables [H01B 7/06](#))}**

### **Definition statement**

*This place covers:*

- Chain with articulated elements for supporting a cable
- Cable arrangement in sliding doors

### **References**

#### **Limiting references**

*This place does not cover:*

Extensible conductors or cables	<a href="#">H01B 7/06</a>
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## **H02G 11/02**

**using take-up reel or drum**

### **Definition statement**

*This place covers:*

Apparatus where part of the cable is stored on a reel or similar while power is supplied to the apparatus

## References

### Limiting references

*This place does not cover:*

Storage of cables on reels where there is no power transfer	<a href="#">B65H 75/00</a>
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## H02G 13/00

**Installations of lightning conductors; Fastening thereof to supporting structure (indicating, counting or recording lightning strokes [G01](#); lightning arrestors [H01C 7/12](#), [H01C 8/04](#), [H01G 9/18](#), [H01T](#); earth plates, pins or other contacts [H01R](#))**

### Definition statement

*This place covers:*

- Lightning protection devices
- Devices modifying air characteristics in order to attract lightning stroke, e.g. radioactive
- Routing of lightning to ground
- Measuring electromagnetic field
- Airplane or wind turbine protection

## References

### Limiting references

*This place does not cover:*

Lightning arrestors	<a href="#">H01C 7/12</a> , <a href="#">H01C 8/04</a> , <a href="#">H01G 9/18</a> , <a href="#">H01T</a>
Earth plates, pins or other contacts	<a href="#">H01R 4/66</a>

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Indicating, counting or recording lightning strokes	<a href="#">G01</a>
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## H02G 15/00

### Cable fittings

### Glossary of terms

*In this place, the following terms or expressions are used with the meaning indicated:*

Condenser	Capacitor
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**H02G 15/003****{Filling materials, e.g. solid or fluid insulation}****Definition statement***This place covers:*

Details of the filling material per se

**H02G 15/013****Sealing means for cable inlets (inlets for cables filled with, or surrounded by, gas or oil [H02G 15/32](#))****References****Limiting references***This place does not cover:*

Details of the sealing material	<a href="#">H02G 15/003</a>
Inlets for cables filled with, or surrounded by, gas or oil	<a href="#">H02G 15/32</a>

**H02G 15/02****Cable terminations (for gas- or oil-filled cables [H02G 15/22](#))****References****Limiting references***This place does not cover:*

Terminations for gas- or oil-filled cables	<a href="#">H02G 15/22</a>
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**H02G 15/025****{for coaxial cables or hollow conductors (connections between HF conductors [H01P 1/04](#); plug and socket connections per se [H01R 24/38](#))}****References****Limiting references***This place does not cover:*

Connections between HF conductors	<a href="#">H01P 1/04</a>
Plug and socket connections per se	<a href="#">H01R 24/38</a>

**H02G 15/06**

Cable terminating boxes, frames, or other structures (terminal blocks [H01R 9/00](#))

**References****Limiting references**

*This place does not cover:*

Terminal blocks	<a href="#">H01R 9/00</a>
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**H02G 15/068**

connected to the cable shield only ([H02G 15/072](#) takes precedence)

**References****Limiting references**

*This place does not cover:*

Condenser type devices for relieving electrical stress	<a href="#">H02G 15/072</a>
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**H02G 15/08**

Cable junctions (for gas- or oil-filled cables [H02G 15/24](#); disconnectible junctions, electrical connections [H01R](#))

**References****Limiting references**

*This place does not cover:*

Junctions for gas- or oil-filled cables	<a href="#">H02G 15/24</a>
Disconnectable junctions; Electrical connections per se	<a href="#">H01R</a>

**H02G 15/085**

{for coaxial cables or hollow conductors (plug and socket connections between HF conductors [H01P 1/04](#); plug and socket connections per se [H01R 24/38](#))}

**References****Limiting references**

*This place does not cover:*

Connections between HF conductors	<a href="#">H01P 1/04</a>
Plug and socket connections per se	<a href="#">H01R 24/38</a>

## H02G 15/10

protected by boxes, e.g. by distribution, connection or junction boxes (terminal blocks [H01R 9/00](#){; distribution boxes per se [H02G 3/08](#)})

### References

#### Limiting references

*This place does not cover:*

Distribution boxes per se	<a href="#">H02G 3/08</a>
Terminal blocks	<a href="#">H01R 9/00</a>

#### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Cable junctions protected by sleeves	<a href="#">H02G 15/18</a>
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## H02G 15/105

connected to the cable shield only ([H02G 15/107](#) takes precedence)

### References

#### Limiting references

*This place does not cover:*

Condenser type	<a href="#">H02G 15/107</a>
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## H02G 15/18

protected by sleeves, e.g. for communication cable (two-part covers [H02G 15/10](#){; preforms having internal stresses [B29C 61/00](#)})

### References

#### Limiting references

*This place does not cover:*

Two-part coverings	<a href="#">H02G 15/113</a> , <a href="#">H02G 15/115</a>
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#### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Preforms having internal stresses	<a href="#">B29C 61/00</a>
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## H02G 15/1806

{Heat shrinkable sleeves (insulation of electrical connections using a heat shrinking insulating sleeve [H01R 4/72](#))}

### References

#### Limiting references

*This place does not cover:*

Insulation of electrical connectors per se using a heat shrinking insulating sleeve	<a href="#">H01R 4/72</a>
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## H02G 15/20

Cable fittings for cables filled with or surrounded by gas or oil ([H02G 15/34](#) takes precedence)

### References

#### Limiting references

*This place does not cover:*

Cable fittings for cryogenic cables	<a href="#">H02G 15/34</a>
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## H02G 15/28

structurally associated with devices for indicating the presence or location of non-electric faults (combined with electric protective means [H02H](#))

### References

#### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Emergency protective circuit arrangements	<a href="#">H02H</a>
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## H02G 15/34

Cable fittings for cryogenic cables {(superconductive cables per se [H01B 12/00](#))}

### Definition statement

*This place covers:*

Cable fittings for very low temperature environments including superconducting cable arrangements

### References

#### Limiting references

*This place does not cover:*

Superconductive cables per se	<a href="#">H01B 12/00</a>
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