

## SECTION H — ELECTRICITY

### H02 GENERATION, CONVERSION, OR DISTRIBUTION OF ELECTRIC POWER

**H02G INSTALLATION OF ELECTRIC CABLES OR LINES, OR OF COMBINED OPTICAL AND ELECTRIC CABLES OR LINES** (insulated conductors or cables with arrangements for facilitating mounting or securing H01B 7/40; distribution points incorporating switches H02B; guiding telephone cords H04M 1/15; cable ducts or mountings for telephone or telegraph exchange installations H04Q 1/06)

#### Note(s) [6]

1. This subclass 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.
2. This subclass does not cover installation of purely optical cables, which is covered by group G02B 6/46.
3. In this subclass, the following expression is used with the meaning indicated:
  - "electric cable" includes cables comprising optical conductors, e.g. fibres, in combination with electrical conductors.

#### Subclass index

##### PRINCIPAL TYPES OF INSTALLATIONS

Inside; overhead; underground or underwater.....3/00, 7/00, 9/00

##### SPECIAL INSTALLATIONS

Of bus-bars; of lightning conductors; of movable parts.....5/00, 13/00, 11/00

CABLE FITTINGS.....15/00

INSTALLING, MAINTAINING, REPAIRING.....1/00

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| <p><b>1/00 Methods or apparatus specially adapted for installing, maintaining, repairing, or dismantling electric cables or lines [1, 2006.01]</b></p> <p>1/02 • for overhead lines or cables [1, 2006.01]</p> <p>1/04 • • for mounting or stretching (wire stretchers in general B25B 25/00) [1, 2006.01]</p> <p>1/06 • for laying cables, e.g. laying apparatus on vehicle (combined with trench digging or back-filling machines or dredgers E02F 5/00) [1, 2006.01]</p> <p>1/08 • • through tubing or conduit, e.g. rod or draw wire for pushing or pulling [1, 2006.01]</p> <p>1/10 • • in or under water [1, 2006.01]</p> <p>1/12 • for removing insulation or armouring from cables, e.g. from the end thereof (pliers in general B25B; cutters in general B26B; insulated conductors or cables with arrangements for facilitating removal of insulation H01B 7/38) [1, 2006.01]</p> <p>1/14 • for joining or terminating cables (joining electric conductors H01R 43/00) [1, 2006.01]</p> <p>1/16 • for repairing insulation or armouring of cables [1, 2006.01]</p> <p><b>3/00 Installations of electric cables or lines or protective tubing therefor in or on buildings, equivalent structures or vehicles</b> (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) [1, 2006.01]</p> <p>3/02 • Details [1, 2006.01]</p> <p>3/03 • • Cooling [2, 2006.01]</p> | <p>3/04 • • Protective tubing or conduits, e.g. cable ladders, cable troughs (pipes or tubing in general F16L) [1, 2006.01]</p> <p>3/06 • • Joints for connecting lengths of protective tubing to each other or to casings, e.g. to distribution box; Ensuring electrical continuity in the joint [1, 2006.01]</p> <p>3/08 • • Distribution boxes; Connection or junction boxes (cable terminations H02G 15/02) [1, 2006.01]</p> <p>3/10 • • • for surface mounting on a wall [1, 2006.01]</p> <p>3/12 • • • for flush mounting [1, 2006.01]</p> <p>3/14 • • • Fastening of cover or lid to box [1, 2006.01]</p> <p>3/16 • • • structurally associated with support for line-connecting terminals within the box (terminals H01R 9/00) [1, 2006.01]</p> <p>3/18 • • • providing line outlets [1, 2006.01]</p> <p>3/20 • • • • Ceiling roses [1, 2006.01]</p> <p>3/22 • Installations of cables or lines through walls, floors, or ceilings, e.g. into buildings (devices for use where pipes or cables pass through walls or partitions F16L 5/00; lead-in or lead-through insulators H01B 17/26; insulating tubes or sleeves H01B 17/58) [1, 2006.01]</p> <p>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) [7, 2006.01]</p> <p>3/32 • • using mounting clamps [7, 2006.01]</p> <p>3/34 • • using separate protective tubing [7, 2006.01]</p> <p>3/36 • Installations of cables or lines in walls, floors or ceilings (H02G 3/22 takes precedence) [7, 2006.01]</p> |
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- 3/38 • • the cables or lines being installed in preestablished conduits or ducts [7, 2006.01]
- 3/40 • • • using separate protective tubing in the conduits or ducts [7, 2006.01]

#### 5/00 Installations of bus-bars [1, 2006.01]

- 5/02 • Open installations [1, 2006.01]
- 5/04 • Partially-enclosed installations, e.g. in ducts and adapted for sliding or rolling current collection (non-rotary current collectors H01R 41/00) [1, 2006.01]
- 5/06 • Totally-enclosed installations, e.g. in metal casings [1, 2006.01]
- 5/08 • • Connection boxes therefor [1, 2006.01]
- 5/10 • Cooling [2, 2006.01]

#### 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) [1, 2006.01]

- 7/02 • Devices for adjusting or maintaining mechanical tension, e.g. take-up device [1, 2006.01]
- 7/04 • Arrangements or devices for relieving mechanical tension [1, 2006.01]
- 7/05 • Suspension arrangements or devices for electric cables or lines [3, 2006.01]
- 7/06 • • Suspensions for lines or cables along a separate supporting wire, e.g. S-hook [1, 3, 2006.01]
- 7/08 • • • Members clamped to the supporting wire or to the line or cable [1, 3, 2006.01]
- 7/10 • • • Flexible members or lashings wrapped around both the supporting wire and the line or cable [1, 3, 2006.01]
- 7/12 • Devices for maintaining distance between parallel conductors, e.g. spacer [1, 2006.01]
- 7/14 • Arrangements or devices for damping mechanical oscillations of lines, e.g. for reducing production of sound [1, 2006.01]
- 7/16 • Devices for removing snow or ice from lines or cables (from insulators H01B 17/52) [1, 2006.01]
- 7/18 • Devices affording mechanical protection in the event of breakage of a line or cable, e.g. net for catching broken lines [1, 2006.01]
- 7/20 • Spatial arrangements or dispositions of lines or cables on poles, posts, or towers (construction of poles, posts, or towers E04H 12/22) [1, 2006.01]
- 7/22 • Arrangements of earthing wires suspended between mastheads [1, 2006.01]

#### 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) [1, 2006.01]

- 9/02 • laid directly in or on the ground, river-bed or sea-bottom; Coverings therefor, e.g. tile [1, 2006.01]
- 9/04 • in surface ducts; Ducts or covers therefor [1, 2006.01]
- 9/06 • in underground tubes or conduits; Tubes or conduits therefor [1, 2006.01]
- 9/08 • in tunnels [1, 2006.01]
- 9/10 • in cable chambers, e.g. in manhole, in handhole (building aspects of cable chambers section E, e.g. E04H 5/06) [1, 2006.01]
- 9/12 • supported on or from floats, e.g. in water (floating cables H01B 7/12) [1, 2006.01]

#### 11/00 Arrangements of electric cables or lines between relatively-movable parts (current collectors H01R) [1, 2006.01]

- 11/02 • using take-up reel or drum [1, 2006.01]

#### 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) [1, 2006.01]

#### 15/00 Cable fittings [1, 2006.01]

- 15/007 • Devices for relieving mechanical stress [3, 2006.01]
- 15/013 • Sealing means for cable inlets (inlets for cables filled with, or surrounded by, gas or oil H02G 15/32) [3, 2006.01]
- 15/02 • Cable terminations (for gas- or oil-filled cables H02G 15/22) [1, 2006.01]
- 15/04 • • Cable-end sealings [1, 2006.01]
- 15/06 • • Cable terminating boxes, frames, or other structures (terminal blocks H01R 9/00) [1, 2006.01]
- 15/064 • • • with devices for relieving electrical stress [3, 2006.01]
- 15/068 • • • connected to the cable shield only (H02G 15/072 takes precedence) [3, 2006.01]
- 15/072 • • • of the condenser type [3, 2006.01]
- 15/076 • • • for multi-conductor cables [3, 2006.01]
- 15/08 • Cable junctions (for gas or oil filled cables H02G 15/24; disconnectable junctions, electrical connections H01R) [1, 2006.01]
- 15/10 • • protected by boxes, e.g. by distribution, connection or junction boxes (terminal blocks H01R 9/00) [1, 2006.01]
- 15/103 • • • with devices for relieving electrical stress [3, 2006.01]
- 15/105 • • • connected to the cable shield only (H02G 15/107 takes precedence) [3, 2006.01]
- 15/107 • • • of the condenser type [3, 2006.01]
- 15/113 • • • Boxes split longitudinally in main cable direction [3, 2006.01]
- 15/115 • • • Boxes split perpendicularly to main cable direction [3, 2006.01]
- 15/117 • • • for multiconductor cables [3, 2006.01]
- 15/12 • • • for incorporating transformers, loading coils or amplifiers [1, 2006.01]
- 15/14 • • • specially adapted for submarine cables [1, 2006.01]
- 15/16 • • • structurally associated with support for line-connecting terminals within the box [1, 2006.01]
- 15/18 • • protected by sleeves, e.g. for communication cable (two-part covers H02G 15/10) [1, 2006.01]
- 15/184 • • • with devices for relieving electrical stress [3, 2006.01]
- 15/188 • • • connected to cable shield only [3, 2006.01]
- 15/192 • • • with support means for ends of the sleeves [3, 2006.01]
- 15/196 • • • having lapped insulation [3, 2006.01]
- 15/20 • Cable fittings for cables filled with or surrounded by gas or oil (H02G 15/34 takes precedence) [1, 3, 2006.01]
- 15/22 • • Cable terminations [1, 2006.01]
- 15/23 • • • Cable-end sealings [3, 2006.01]
- 15/24 • • Cable junctions [1, 2006.01]

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| 15/25 | • • • | Stop junctions [3, 2006.01]   | 15/30 | • • | with devices for relieving electrical stress [3, 2006.01] |
| 15/26 | • •   | Expansion vessels; Locking heads; Auxiliary pipelines [1, 2006.01]  | 15/32 | • • | Cable inlets [3, 2006.01]                                 |
| 15/28 | • •   | structurally associated with devices for indicating the presence or location of non-electric faults (combined with electric protective means H02H) [1, 2006.01] | 15/34 | •   | Cable fittings for cryogenic cables [3, 2006.01]          |