

# CPC COOPERATIVE PATENT CLASSIFICATION

## D TEXTILES; PAPER

### TEXTILES OR FLEXIBLE MATERIALS NOT OTHERWISE PROVIDED FOR

#### D07 ROPES; CABLES OTHER THAN ELECTRIC

**D07B ROPES OR CABLES IN GENERAL** (joining ropes or cables to one another or to other objects [B65H 69/00](#), [F16G 11/00](#); {mountaineering ropes [A63B 29/02](#)}; mechanical finishing or dressing of ropes [D02J](#); {braiding [D04C](#)}; decorative ropes or cords [D04D](#); suspension cables for bridges [E01D 19/16](#); specially adapted for driving, or for being driven by, pulleys or other gearing elements [F16G 9/00](#); electric cables or joints insofar as electrical aspects are essential [H01B](#), [H01R](#))

#### **WARNING**

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

<b>1/00</b>	<b>Constructional features of ropes or cables</b>	1/10	. . . with a core of wires arranged parallel to the centre line
1/005	. {Composite ropes, i.e. ropes built-up from fibrous or filamentary material and metal wires}	1/12	. Ropes or cables with a hollow core
1/02	. Ropes built-up from fibrous or filamentary material, e.g. of vegetable origin, of animal origin, regenerated cellulose, plastics	1/14	. Ropes or cables with incorporated auxiliary elements, e.g. for marking, extending throughout the length of the rope or cable
1/025	. . {comprising high modulus, or high tenacity, polymer filaments or fibres, e.g. liquid-crystal polymers}	1/141	. . {comprising liquid, pasty or powder agents, e.g. lubricants or anti-corrosive oils or greases}
1/04	. . with a core of fibres or filaments arranged parallel to the centre line	1/142	. . . {for ropes or rope components built-up from fibrous or filamentary material}
1/06	. Ropes or cables built-up from metal wires, e.g. of section wires around a hemp core	1/144	. . . {for cables or cable components built-up from metal wires}
1/0606	. . {Reinforcing cords for rubber or plastic articles}	1/145	. . {comprising elements for indicating or detecting the rope or cable status}
1/0613	. . . {the reinforcing cords being characterised by the rope configuration}	1/147	. . {comprising electric conductors or elements for information transfer ( <a href="#">D07B 1/145</a> takes precedence)}
1/062	. . . {the reinforcing cords being characterised by the strand configuration}	1/148	. . {comprising marks or luminous elements}
1/0626	. . . . {the reinforcing cords consisting of three core wires or filaments and at least one layer of outer wires or filaments, i.e. a 3+N configuration}	1/16	. Ropes or cables with an enveloping sheathing or inlays of rubber or plastics ( <a href="#">D07B 1/04</a> , <a href="#">D07B 1/10</a> take precedence)
1/0633	. . . . {having a multiple-layer configuration}	1/162	. . {characterised by a plastic or rubber enveloping sheathing}
1/064	. . . . {the reinforcing cords being twisted and with at least one wire exchanging place with another wire}	1/165	. . {characterised by a plastic or rubber inlay}
1/0646	. . . {comprising longitudinally preformed wires}	1/167	. . . {having a predetermined shape}
1/0653	. . . . {in the core}	1/18	. Grommets {(slings <a href="#">B66C 1/12</a> )}
1/066	. . . {the wires being made from special alloy or special steel composition}	1/185	. . {characterised by the eye construction}
1/0666	. . . {the wires being characterised by an anti-corrosive or adhesion promoting coating}	1/20	. Buoyant ropes, e.g. with air-filled cellular cores; Accessories therefor
1/0673	. . {having a rope configuration}	1/22	. Flat or flat-sided ropes; Sets of ropes consisting of a series of parallel ropes
1/068	. . . {characterised by the strand design}	1/24	. {Ropes or cables with a prematurely failing element}
1/0686	. . . {characterised by the core design}		
1/0693	. . {having a strand configuration}		
1/08	. . the layers of which are formed of profiled interlocking wires, i.e. the strands forming concentric layers {( <a href="#">D07B 1/0606</a> takes precedence)}		
		<b><u>Manufacture of ropes or cables</u></b>	
		<b>3/00</b>	<b>General-purpose machines or apparatus for producing twisted ropes or cables from component strands of the same or different material</b>
		3/005	. {with alternating twist directions}

- 3/02 . . in which the supply reels rotate about the axis of the rope or cable {or in which a guide member rotates about the axis of the rope or cable to guide the component strands away from the supply reels in fixed position}
  - 3/022 . . {with provision for imparting two or more twists to the filaments for each revolution of the guide member}
  - 3/04 . . and are arranged in tandem along the axis of the machine {, e.g. tubular or high-speed type stranding machine}
  - 3/045 . . . {with the reels axially aligned, their common axis coinciding with the axis of the machine}
  - 3/06 . . and are spaced radially from the axis of the machine {, i.e. basket or planetary-type stranding machine}
  - 3/08 . . in which the take-up reel rotates about the axis of the rope or cable {or in which a guide member rotates about the axis of the rope or cable to guide the rope or cable on the take-up reel in fixed position} and the supply reels are fixed in position
  - 3/085 . . {in which a guide member rotates about the axis of the rope or cable to guide the rope or cable on the take-up reel in fixed position}
  - 3/10 . . with provision for imparting more than one complete twist to the ropes or cables for each revolution of the take-up reel {or of the guide member}
  - 3/103 . . . {characterised by the bow construction}
  - 3/106 . . . {characterised by comprising two bows, both guiding the same bundle to impart a twist}
  - 3/12 . . operating with rotating loops of filaments
  - 3/14 . . hand-operated
  - 5/00 Making ropes or cables from special materials or of particular form**
  - 5/002 . . {Making parallel wire strands}
  - 5/005 . . {characterised by their outer shape or surface properties}
  - 5/006 . . . {by the properties of an outer surface polymeric coating}
  - 5/007 . . {comprising postformed and thereby radially plastically deformed elements}
  - 5/02 . . from straw or like vegetable material
  - 5/04 . . Rope bands
  - 5/045 . . . {Belts comprising additional filaments for laterally interconnected load bearing members}
  - 5/06 . . from natural or artificial staple fibres
  - 5/08 . . agglutinated by adhesives
  - 5/10 . . from strands of non-circular cross-section
  - 5/12 . . of low twist or low tension by processes comprising setting or straightening treatments
  - 7/00 Details of, or auxiliary devices incorporated in, rope- or cable-making machines; Auxiliary apparatus associated with such machines**
  - 7/02 . . Machine details; Auxiliary devices
  - 7/021 . . . {Guiding means for filaments, strands, ropes or cables}
  - 7/022 . . . {Measuring or adjusting the lay or torque in the rope}
  - 7/025 . . . {Performing the wires or strands prior to closing}
  - 7/027 . . . {Postforming of ropes or strands}
  - 7/04 . . Devices for imparting reverse rotation to bobbin- or reel cages
  - 7/06 . . . Bearing supports or brakes for supply bobbins or reels
  - 7/08 . . . Alarms or stop motions responsive to exhaustion or breakage of filamentary material fed from supply reels or bobbins
  - 7/10 . . . Devices for taking-up or winding the finished rope or cable
  - 7/12 . . . for softening, lubricating or impregnating ropes, cables, or component strands thereof
  - 7/14 . . . for coating or wrapping ropes, cables, or component strands thereof (applying liquids or other fluent materials to surfaces in general [B05](#); wrapping elongated cores in general [B65H 81/06](#))
  - 7/145 . . . . {Coating or filling-up interstices}
  - 7/16 . . Auxiliary apparatus
  - 7/162 . . . {Vices or clamps for bending or holding the rope or cable during splicing}
  - 7/165 . . . {for making slings}
  - 7/167 . . . {for joining rope components}
  - 7/169 . . . {for interconnecting two cable or rope ends, e.g. by splicing or sewing (fixation or holding of the ends prior to or during splicing [D07B 7/162](#); joining the rope or cable components individually or joining the rope ends by permanent means such as welding, gluing or crimp sleeve [D07B 7/167](#); preparing the splice by opening the ends [D07B 7/18](#))}
  - 7/18 . . . for spreading or untwisting ropes or cables into constituent parts for treatment or splicing purposes
  - 7/182 . . . . {for spreading ropes or cables by hand-operated tools for splicing purposes, e.g. needles or spikes}
  - 7/185 . . . . {for temporarily untwisting ropes or cables into constituent parts for applying a coating}
  - 7/187 . . . . {for forming bulbs in ropes or cables}
  - 9/00 Binding or sealing ends, e.g. to prevent unravelling**
  - 9/001 . . {combined with cutting or severing}
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- 2201/00 Ropes or cables**
  - 2201/10 . . Rope or cable structures
  - 2201/1004 . . . General structure or appearance
  - 2201/1008 . . . . Several parallel ropes
  - 2201/1012 . . . characterised by their internal structure
  - 2201/1014 . . . . characterised by being laid or braided from several sub-ropes or sub-cables, e.g. hawsers
  - 2201/1016 . . . . characterised by the use of different strands
  - 2201/102 . . . . including a core
  - 2201/1024 . . . Structures that change the cross-sectional shape
  - 2201/1028 . . . characterised by the number of strands
  - 2201/1032 . . . . three to eight strands respectively forming a single layer
  - 2201/1036 . . . . nine or more strands respectively forming multiple layers
  - 2201/104 . . . twisted
  - 2201/1044 . . . . characterised by a value or range of the pitch parameter given
  - 2201/1048 . . . . using regular lay, i.e. the wires or filaments being parallel to rope axis
  - 2201/1052 . . . . using lang lay, i.e. the wires or filaments being inclined relative to the rope axis

2201/1056	. . .	using alternate lay, i.e. the wires or filaments in the strands being oppositely inclined relative to the rope axis	2201/2039	. . . .	three to eight wires or filaments respectively forming a single layer
2201/106	. . .	Pitch changing over length	2201/204	. . . .	nine or more wires or filaments respectively forming multiple layers
2201/1064	. . .	characterised by lay direction of the strand compared to the lay direction of the wires in the strand	2201/2041	. . .	characterised by the materials used
2201/1068	. . . .	having the same lay direction	2201/2042	. . .	characterised by a coating
2201/1072	. . .	Compact winding, i.e. S/S or Z/Z	2201/2043	. . . .	comprising metals
2201/1076	. . .	Open winding	2201/2044	. . . .	comprising polymers
2201/108	. . . .	Cylinder winding, i.e. S/Z or Z/S	2201/2045	. . . .	comprising multiple layers
2201/1084	. . . .	Different twist pitch	2201/2046	. . .	comprising fillers
2201/1088	. .	false twisted	2201/2047	. .	Cores
2201/1092	. .	Parallel strands	2201/2048	. . .	characterised by their cross-sectional shape
2201/1096	. .	braided	2201/2049	. . . .	having protrusions extending radially functioning as spacer between strands or wires
2201/20	.	Rope or cable components	2201/2051	. . .	characterised by a value or range of the dimension given
2201/2001	. .	Wires or filaments	2201/2052	. . .	characterised by their structure
2201/2002	. . .	characterised by their cross-sectional shape	2201/2053	. . . .	being homogeneous
2201/2003	. . . .	flat	2201/2054	. . . .	comprising foam material
2201/2004	. . . .	triangular	2201/2055	. . . .	comprising filaments or fibers
2201/2005	. . . .	oval	2201/2056	. . . .	arranged parallel to the axis
2201/2006	. . .	characterised by a value or range of the dimension given	2201/2057	. . . .	resulting in a twisted structure
2201/2007	. . .	characterised by their longitudinal shape	2201/2058	. . . .	comprising fillers
2201/2008	. . . .	wavy or undulated	2201/2059	. . . .	comprising wires
2201/2009	. . .	characterised by the materials used	2201/206	. . . .	arranged parallel to the axis
2201/201	. . .	characterised by a coating	2201/2061	. . . .	resulting in a twisted structure
2201/2011	. . . .	comprising metals	2201/2062	. . . .	comprising fillers
2201/2012	. . . .	comprising polymers	2201/2063	. . . .	being hollow
2201/2013	. . . .	comprising multiple layers	2201/2064	. . . .	being discontinuous in the longitudinal direction
2201/2014	. . .	Compound wires or compound filaments	2201/2065	. . . .	comprising a coating
2201/2015	. .	Strands	2201/2066	. . .	characterised by the materials used
2201/2016	. . .	characterised by their cross-sectional shape	2201/2067	. . .	characterised by the elongation or tension behaviour
2201/2017	. . . .	triangular	2201/2068	. . . .	having a load bearing function
2201/2018	. . . .	oval	2201/2069	. . . .	being elastic
2201/2019	. . .	pressed to shape	2201/207	. . . .	being viscous
2201/202	. . .	characterised by a value or range of the dimension given	2201/2071	. .	Spacers
2201/2021	. . .	characterised by their longitudinal shape	2201/2072	. . .	characterised by the materials used
2201/2022	. . .	coreless	2201/2073	. . .	in circumferential direction
2201/2023	. . .	with core	2201/2074	. . .	in radial direction
2201/2024	. . .	twisted	2201/2075	. .	Fillers
2201/2025	. . . .	characterised by a value or range of the pitch parameter given	2201/2076	. . .	having a lubricant function
2201/2026	. . . .	Pitch changing over length	2201/2077	. . .	having an anti-corrosive function
2201/2027	. . . .	Compact winding	2201/2078	. . .	having a load bearing function
2201/2028	. . . .	having the same lay direction and lay pitch	2201/2079	. . .	characterised by the kind or amount of filling
2201/2029	. . . .	Open winding	2201/208	. . . .	having an open structure
2201/203	. . . .	Cylinder winding, i.e. S/Z or Z/S	2201/2081	. . . .	having maximum filling
2201/2031	. . . .	Different twist pitch	2201/2082	. . .	characterised by the materials used
2201/2032	. . . .	compared with the core	2201/2083	. .	Jackets or coverings
2201/2033	. . .	Parallel wires	2201/2084	. . .	characterised by their shape
2201/2034	. . .	comprising crossing wires or filaments in the same layer	2201/2085	. . . .	concerning the internal shape
2201/2035	. . .	false twisted	2201/2086	. . . .	concerning the external shape
2201/2036	. . .	characterised by the use of different wires or filaments	2201/2087	. . .	being of the coated type
2201/2037	. . . .	regarding the dimension of the wires or filaments	2201/2088	. . .	having multiple layers
2201/2038	. . .	characterised by the number of wires or filaments	2201/2089	. . .	comprising wrapped structures
			2201/209	. . .	comprising braided structures
			2201/20903	. . .	comprising woven structures
			2201/20907	. . .	comprising knitted structures
			2201/2091	. . .	being movable relative to the internal structure
			2201/2092	. . .	characterised by the materials used

- 2201/2093 . . . . being translucent
- 2201/2094 . . . . being luminescent or reflective
- 2201/2095 . . Auxiliary components, e.g. electric conductors or light guides
- 2201/2096 . . . Light guides
- 2201/2097 . . . Binding wires
- 2201/2098 . . . . characterized by special properties or the arrangements of the binding wire
  
- 2205/00 Rope or cable materials**
- 2205/10 . Natural organic materials
- 2205/103 . . Animal and plant materials
- 2205/106 . . . Manila, hemp or sisal
- 2205/20 . Organic high polymers
- 2205/2003 . . Thermoplastics
- 2205/2007 . . Duroplastics
- 2205/201 . . Polyolefins
- 2205/2014 . . . High performance polyolefins, e.g. Dyneema or Spectra
- 2205/2017 . . Polystyrenes
- 2205/2021 . . Polyvinyl halides
- 2205/2025 . . Polyvinyl acetates
- 2205/2028 . . Polyvinyl alcohols
- 2205/2032 . . Polyacrylics
- 2205/2035 . . Polyacetals
- 2205/2039 . . Polyesters
- 2205/2042 . . . High performance polyesters, e.g. Vectran
- 2205/2046 . . Polyamides, e.g. nylons
- 2205/205 . . . Aramides
- 2205/2053 . . . . Polybenzimidazol [PBI]
- 2205/2057 . . Phenol resins
- 2205/206 . . Epoxy resins
- 2205/2064 . . Polyurethane resins
- 2205/2067 . . Viscose or regenerated cellulose, e.g. Rayon
- 2205/2071 . . Fluor resins
- 2205/2075 . . Rubbers, i.e. elastomers
- 2205/2078 . . . being of natural origin
- 2205/2082 . . . being of synthetic nature, e.g. chloroprene
- 2205/2085 . . having particular high polymer characteristics
- 2205/2089 . . . showing heat contraction
- 2205/2092 . . . related to water solubility
- 2205/2096 . . Poly-p-phenylenebenzo-bisoxazole [PBO]
- 2205/30 . Inorganic materials
- 2205/3003 . . Glass
- 2205/3007 . . Carbon
- 2205/301 . . Ceramics
- 2205/3014 . . Asbestos
- 2205/3017 . . Silicon carbides
- 2205/3021 . . Metals
- 2205/3025 . . . Steel
- 2205/3028 . . . . Stainless steel
- 2205/3032 . . . . Austenite
- 2205/3035 . . . . Pearlite
- 2205/3039 . . . . Martensite
- 2205/3042 . . . . Ferrite
- 2205/3046 . . . . characterised by the carbon content
- 2205/305 . . . . . having a low carbon content, e.g. below 0,5 percent respectively NT wires
- 2205/3053 . . . . . having a medium carbon content, e.g. greater than 0,5 percent and lower than 0.8 percent respectively HT wires
  
- 2205/3057 . . . . . having a high carbon content, e.g. greater than 0,8 percent respectively SHT or UHT wires
- 2205/306 . . . Aluminium (Al)
- 2205/3064 . . . Chromium (Cr)
- 2205/3067 . . . Copper (Cu)
- 2205/3071 . . . Zinc (Zn)
- 2205/3075 . . . Tin (Sn)
- 2205/3078 . . . Lead (Pb)
- 2205/3082 . . . Tungsten (W)
- 2205/3085 . . . Alloys, i.e. non ferrous
- 2205/3089 . . . . Brass, i.e. copper (Cu) and zinc (Zn) alloys
- 2205/3092 . . . . Zinc (Zn) and tin (Sn) alloys
- 2205/3096 . . . Amorphous metals
- 2205/40 . Superconductive materials
- 2205/405 . . Ceramic superconductor
- 2205/50 . Lubricants
- 2205/502 . . Oils
- 2205/505 . . Greases
- 2205/507 . . Solid lubricants
  
- 2207/00 Rope or cable making machines**
- 2207/20 . Type of machine
- 2207/201 . . Manually operated systems
- 2207/202 . . Double twist unwinding
- 2207/203 . . . comprising flyer
- 2207/204 . . Double twist winding
- 2207/205 . . . comprising flyer
- 2207/206 . . . with means for providing less than double twist, e.g. counter rotating means
- 2207/207 . . Sequential double twisting devices
- 2207/208 . . . characterised by at least partially unwinding the twist of the upstream double twisting step
- 2207/209 . . Tubular strander
- 2207/40 . Machine components
- 2207/4004 . . Unwinding devices
- 2207/4009 . . . over the head
- 2207/4013 . . . comprising flyer
- 2207/4018 . . Rope twisting devices
- 2207/4022 . . . characterised by twisting die specifics
- 2207/4027 . . . . including a coating die
- 2207/4031 . . Winding device
- 2207/4036 . . . comprising traversing means
- 2207/404 . . Heat treating devices; Corresponding methods
- 2207/4045 . . . to change the crystal structure of the load bearing material
- 2207/405 . . . to heat towards the glass transition temperature of the load bearing material
- 2207/4054 . . . to soften the load bearing material
- 2207/4059 . . . to soften the filler material
- 2207/4063 . . . for stress relief
- 2207/4068 . . . for curing
- 2207/4072 . . Means for mechanically reducing serpentineing or mechanically killing of rope
- 2207/4077 . . Safety devices
- 2207/4081 . . . comprising means for stopping or shutting down the machine
- 2207/4086 . . . providing warnings
- 2207/409 . . Drives
- 2207/4095 . . . Control means therefor
  
- 2301/00 Controls**
- 2301/10 . Open loop

2301/15	. Closed loop	2301/554	. . . for measuring variable resistance
2301/155	. . being of the extended closed loop control system type, e.g. using models or more than one signal in the feedback loop	2301/5545	. . . and piezoelectric phenomena
2301/20	. Controller types	2301/555	. . . for measuring magnetic properties
2301/201	. . proportional	2301/5554	. . . for measuring capacitance
2301/202	. . integrative	2301/5559	. . . for measuring inductance
2301/204	. . differential	2301/5563	. . . for measuring temperature, i.e. thermocouples
2301/205	. . Programmable controllers; Calculating or controlling methods	2301/5568	. . . acoustic or ultrasonic
2301/207	. . . Fuzzy logic	2301/5572	. . . optical
2301/208	. . . using timing functions	2301/5577	. . . using light guides
2301/25	. System input signals, e.g. set points	2301/5581	. . . using cameras
2301/251	. . Twist	2301/5586	. . . using lasers
2301/252	. . Temperature	2301/559	. . . for pressure
2301/253	. . . Temperature profile or sequence	2301/5595	. . . for force
2301/254	. . Amount of material	<b>2401/00</b>	<b>Aspects related to the problem to be solved or advantage</b>
2301/255	. . Power consumption of drive	2401/20	. related to ropes or cables
2301/256	. . Pressure	2401/2005	. . Elongation or elasticity
2301/257	. . Force	2401/201	. . . regarding structural elongation
2301/258	. . Tensile stress	2401/2015	. . Killing or avoiding twist
2301/259	. . Strain or elongation	2401/202	. . Environmental resistance
2301/30	. Signals indicating failure or excessive conditions, e.g. overheating	2401/2025	. . . avoiding corrosion
2301/302	. . Temperature	2401/203	. . . Low temperature resistance
2301/305	. . Wear or friction	2401/2035	. . . High temperature resistance
2301/307	. . Breakage of wire or strand or rope	2401/204	. . . Moisture handling
2301/35	. System output signals	2401/2045	. . Avoiding longitudinal load for covering
2301/3508	. . Twist	2401/205	. . Avoiding relative movement of components
2301/3516	. . Temperature	2401/2055	. . Improving load capacity
2301/3525	. . . Temperature profile or sequence	2401/206	. . Improving radial flexibility
2301/3533	. . Amount of material	2401/2065	. . Reducing wear
2301/3541	. . Power consumption of drive	2401/207	. . . internally
2301/355	. . Pressure	2401/2075	. . . externally
2301/3558	. . Force	2401/208	. . Enabling filler penetration
2301/3566	. . Tensile stress	2401/2085	. . Adjusting or controlling final twist
2301/3575	. . Strain or elongation	2401/209	. . . comprising compensation of rope twist in strand twist
2301/3583	. . Rotational speed	2401/2095	. . Improving filler wetting respectively or filler adhesion
2301/3591	. . Linear speed	2401/40	. related to rope making machines
2301/40	. Feedback signal in closed loop controls	2401/401	. . Reducing wear
2301/4008	. . Twist	2401/403	. . Reducing vibrations
2301/4016	. . Temperature	2401/405	. . Addressing space constraints
2301/4025	. . . Temperature profile or sequence	2401/406	. . Increasing speed
2301/4033	. . Amount of material	2401/408	. . Increasing rope length, e.g. on drum
2301/4041	. . Power consumption of drive	<b>2501/00</b>	<b>Application field</b>
2301/405	. . Pressure	2501/20	. related to ropes or cables
2301/4058	. . Force	2501/2007	. . Elevators
2301/4066	. . Tensile stress	2501/2015	. . Construction industries
2301/4075	. . Strain or elongation	2501/2023	. . . Concrete enforcements
2301/4083	. . Rotational speed	2501/203	. . . Bridges
2301/4091	. . Linear speed	2501/2038	. . Agriculture, forestry and fishery
2301/45	. for diagnosing	2501/2046	. . Tire cords
2301/50	. User Interface or value setting	2501/2053	. . . for wheel rim attachment
2301/55	. Sensors	2501/2061	. . Ship moorings
2301/5504	. . characterised by their arrangement	2501/2069	. . Climbing or tents
2301/5509	. . . being movable	2501/2076	. . Power transmissions
2301/5513	. . . being of the reflective type	2501/2084	. . Mechanical controls, e.g. door lashes
2301/5518	. . . . Transducers therefor	2501/2092	. . Evacuation lines or lifelines
2301/5522	. . . being of the barrier type	2501/40	. related to rope or cable making machines
2301/5527	. . . comprising an array or multiple sensors	2501/403	. . for making belts
2301/5531	. . using electric means or elements	2501/406	. . for making electrically conductive cables
2301/5536	. . . for measuring electrical current		

**2801/00** Linked indexing codes associated with indexing codes or classes of [D07B](#)

**NOTE**

The following indexing codes are applied as linked indexing codes associated to other indexing codes or classes of [D07B](#), with the following restrictions:

- [D07B 2801/10](#), [D07B 2801/14](#) -[D07B 2801/22](#) are only to be used as linked indexing codes with [D07B 2205/00](#) and lower hierarchy
- [D07B 2801/12](#) and [D07B 2801/24](#) are only to be used as linked indexing codes with [D07B 2205/00](#) and lower hierarchy or [D07B 2201/2047](#) and lower hierarchy
- [D07B 2801/60](#) and [D07B 2801/62](#) are only to be used as linked indexing codes with [D07B 2207/404](#) and lower hierarchy
- [D07B 2801/90](#) is only used as linked indexing code with any class or indexing code of [D07B](#) and defines that the classified feature belongs to the general knowledge.

- [2801/10](#) . Smallest filamentary entity of a rope or strand, i.e. wire, filament, fiber or yarn
- [2801/12](#) . Strand
- [2801/14](#) . Core
- [2801/16](#) . Filler
- [2801/18](#) . Coating
- [2801/20](#) . Spacer
- [2801/22](#) . Jacket or covering
- [2801/24](#) . Rope
- [2801/60](#) . Method
- [2801/62](#) . Device
- [2801/90](#) . General knowledge