

| CODE (max. 10 chars incl. spaces) | REASON | NEW TITLE | CURRENT TITLE | NEW SCOPE NOTES | CURRENT SCOPE NOTES (only include if scope notes are to be changed) | KEYWORDS/SEARCH TERMS |
|-------------------------------------------------------------------------|--------------------|------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Section Q1 | | | | | | |
| Q11 Wheels, tyres, connections | | | | | | |
| Q11-B30 | Change scope | | Other tyre details | Includes wheel tape used to cover spoke nipples to protect inner tube (see also Q19-A for bicycles). Also includes novel tyre materials and rubber compositions (see also relevant polymer section A indexing). | Includes wheel tape used to cover spoke nipples to protect inner tube (see also Q19-A for bicycles). | |
| Q12 Suspension systems | | | | | | |
| Q12-B04 | Change scope | | Spring/damper characteristic adjustment; Vehicle ride height | Includes control of air pressure within air springs. Also includes arrangements for adjusting caster/camber and toe-in/toe-out of vehicle wheels (see also Q12-B07 for suspension adjustment linkages per se). | Includes control of air pressure within air springs. | |
| Q13 Powertrain, Chainset, Transmission Systems and their control | | | | | | |
| Q13-A03 | Change scope | | Clutch | Includes both wet and dry plate friction clutches. Also includes mechanical lock-up clutches used in e.g. torque converters (see also Q13-A02). Also includes clutch release bearings (see also Q62-G codes), clutch pressure plates and flywheels (see also Q63-E02B). For dual-mass flywheels see also Q17-N for vibration reduction per se. | Includes both wet and dry plate friction clutches. Also includes mechanical lock-up clutches used in e.g. torque converters (see also Q13-A02). | |
| Q14 Vehicle Accessories | | | | | | |
| Q14-C07 | Change scope | | Stabilisers | Includes stabilisers used when learning to ride a bicycle (see also Q19-A). Also includes stabilisers and grounding members for construction vehicles (see also Q19-E). For suspension system stabiliser/anti-roll bars see Q12-B09 instead. | Includes stabilisers used when learning to ride a bicycle (see also Q19-A). | |
| Q14-C20 | Change scope | | Other safety devices | Includes collision responsive collapsible steering columns (see also Q18-B01D5). | "None" | |
| Q14-X | Change scope | | Other vehicle accessories | Includes removable aftermarket car mats. See Q17-A10 instead for permanent fixings and fixed interior trim/carpets. Also includes kitchen equipment used in caravan or camper van (see also Q19-F01 and Q19-F02 respectively). | Includes removable aftermarket car mats. See Q17-A10 instead for permanent fixings and fixed interior trim/carpets. | Kitchen; kitchen sinks/worktops/equipment storage; cooker |
| Q17 Vehicle construction, fittings, propulsion arrangements | | | | | | |
| Q17-A04 | Change scope | | Cycle frames | Includes frames and forks used in cycles and motorcycles. Also See Q19-A for cycles, Q19-B for motorcycles and Q12 codes for novel details of suspension forks or rear suspension units. | See also Q19-A for cycles per se. Also includes motorcycle frames (see also Q19-B). | |
| Q17-A06 | Change scope | | Doors; bonnets; tailgates | Includes mechanical aspects of openings such as doors, boots and bonnets. Gas struts are also coded in Q63-E01D for fluid springs. For electrical aspects such as electric sliding doors or electric door locks, instead see X22-X05 and X22-D01 codes respectively. Also includes side impact beams (see also Q14-C06 for crash bars per se). | Includes mechanical aspects of openings such as doors, boots and bonnets. For electrical aspects such as electric sliding doors or electric door locks, instead see X22-X05 and X22-D01 codes respectively. Includes side impact beams (see also Q14-C06 for crash bars per se). | |
| Q17-E | Change title | Propulsion arrangements | Engine propulsion arrangements | | This code can be applied to highlight motor vehicle engine application, with novel engine details/internals being covered in e.g. Q51 codes for novel internal combustion engine details. For electrical aspects of vehicle engines see X22-A codes only. | |
| Q18 Brake Systems; Steering Systems; Control | | | | | | |
| Q18-A15 | Change scope | | Brake safety devices; Monitoring | Includes mechanical aspects of e.g. brake safety such as brake pad wear indicators (see also Q18-A01C). | Includes mechanical aspects of e.g. brake safety such as brake pad wear indicators (see also Q18-A01B). | |
| Section Q2 | | | | | | |
| Q24 Ships; Waterborne vessels; Related Equipment | | | | | | |
| Q24-E02X | Change scope | | Other propulsion power plant | "None" | Includes fuel tanks and other fuel supply arrangements. | |
| Section Q6 | | | | | | |
| Q63 Couplings; clutches, brakes, springs, dampers | | | | | | |
| Q63-E02X | Change scope | | Other shock absorbers/dampers | Includes dowel and plug type connections that are inserted or screwed into hole, with e.g. expanding bodies or tabs engaging hole or gripping reverse side of wall. | "None" | |
| Q64 Belts, chains and gearing | | | | | | |
| Q64-A | Change scope | | Driving belts | Includes IC engine timing belt (see also Q51-E05), and belt tensioning arrangements. | Includes IC engine timing belt (see also Q51-E05). | Cambelt |
| Section S | | | | | | |
| S05 Electrical Medical Equipment | | | | | | |
| S05-A | Change scope | | Therapy | For treatment of abnormal cells/tissues etc. using non- or minimally invasive equipment, e.g. electrotherapy, magnetotherapy, radiation therapy, ultrasound therapy, etc. See S05-B codes for corresponding surgical equipment and S05-D codes for electrical diagnosis. | For treatment of abnormal cells/tissues etc. using non- or minimally invasive equipment, e.g. electrotherapy, magnetotherapy, radiation therapy, ultrasound therapy, etc. See S05-B codes for corresponding surgical equipment, and S05-D codes for measurement of bioelectric currents. | |
| S05-A05B | Change title | Heat and cooling therapy | Heat therapy | | | |
| S05-D01 | Change scope | | Measuring and recording systems | For indicating and recording in general see also S02-K. | For indicating and recording in general see also S02-K, and T04 as appropriate. | |
| S05-D01C1 | Change scope | | Lungs and respiration | Includes all aspects of breathing, exhaled air gas content and volume measurement. See S05-C09 for breathalysing, e.g. for drug or alcohol content. | Includes all aspects of breathing, exhales air gas content and volume measurement. | |
| S05-G02G | Change scope | | Medical IT systems | See also relevant T01 codes for computing aspects. | See T01-J05B for database aspects. | |
| S05-J | Change title | Infusion and percutaneous fluid delivery | Infusion | | | |
| S05-X | Change scope | | Miscellaneous | Includes teaching, transplanting, atomising and enuresis detection. For teaching involving training and simulations aids, see also S05-P. See S05-V from 2007 for veterinary applications. | Includes teaching, atomising and enuresis detection. For teaching involving training and simulations aids, see also S05-P. See S05-V from 2007 for veterinary applications. | |
| S06 Electrophotography and Photography | | | | | | |
| S06-A01A9 | Change scope | | Other (photoconductive layer aspects) | Includes aspects of photoconductive belt/drum not covered by other S06-A01A codes. Also includes details for facsimile photoconductor layers. | Includes aspects of photoconductive belt not covered by other S06-A01A codes. Applying lubricant to drum/photoconductor surface. Also includes details for facsimile photoconductor layers. | |
| S06-A01B | Change search term | | Carriers; intermediate or cover layers | | "None" | Sensitive, image, amorphorous, coating, drum, base layer, protective layer. |
| S06-A01X | Change scope | | Other (Recording members) | Includes thermoplastic and photoelectric layers, paper treatment and mfr., see S06-C02 codes for lithographic plate manufacture. | Includes thermoplastic and photoelectric layers, paper treatment and mfr., dielectric paper and electrophotographic lithographic plate mfr. | |
| S06-A03F | Change scope | | Driving system and construction | Includes mountings for optical system and drum driving aspects. | Includes mountings for optical system. | |
| S06-A03F1 | Change search term | | Document feeder | | "None" | Original, sheet, page, contact glass |
| S03-A03H | Change title | Magnetographic and non-light exposure | Electrographic and magnetographic exposure | | "None" | |

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|------------------------------|-------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| S06-A05A | Change scope | | Corona charger | Includes all aspects of corona discharge. If corona ring or loop is claimed, then also coded in X12-F04. | If corona ring or loop is claimed, then also coded in X12-F04. | Discharge |
| S06-A05C | Change title | Intermediate belt/Intermediate drum | Intermediate drum | | "None" | |
| S06-A06B | Change scope | | Roll and roll driving | Includes clearing jams in fixing system. See also S06-A12D. | Includes clearing jams in fixing system. See also S06-A12B. | |
| S06-A10A | Change search term | | Toner removal | Involves removal of toner. | Involves removal of toner after transfer step | |
| S06-A10E | Change scope | | Removal of other material e.g. dust | Includes details of air cleaning systems. If cleaned air is expelled outside the copier, see also X27-E01B2 (electrical aspects only). | Removal of material other than toner e.g. paper dust, etc. from drum rollers, etc. | |
| S06-A12A | Change title | Multicopies | Multicopies; duplex | | | |
| S06-A12C | Change scope | | Collators and sorters | Includes feeding paper containing classified info to a locked tray. Includes paper stores. For stapling, binding, and paper cutting see S06-A18. | Includes paper stores. For stapling, binding, and paper cutting see S06-A18. | |
| S06-A14D | Change scope | | Power supply control | See also A06-A14C. | "None" | |
| S06-A16C | Change scope | | Systems with electrophotographic and non-electrographic output | See also A06-A16B. | "None" | |
| S06-A17 | Change scope | | Recycling systems | From 2005 covers all aspects of recycling. See also T04-G11B for printer, and/or W02-J05D for facsimile. See also X25-W04 for electrical aspects of recycling systems in general. | From 2005 covers all aspects of recycling. See also T04-G11B for printer. See X25-W04 for recycling systems in general. | |
| S06-A18A | Change title | Stapling, binding, paper cutting, paper punching, paper folding | Stapling, binding, paper cutting, paper punching | | "None" | |
| S06-A19B | Change title/scope note | Ventilation & humidifying mechanisms | Ventilation mechanisms | See X25-L04 for fans. | "None" | Fan |
| S06-B03A1 | Change scope | | Pre-light emission | Pre-light emission before discharge of flash to prevent red eye. See only W04-M01H codes if for digital camera. | Pre-light emission before discharge of flash to prevent red eye. | |
| S06-B04 | Change scope | | Film processing | Electrical aspects of developing exposed film, exposing photographic paper, scanning negative, developing exposed film and paper. Includes electrical aspects of X-ray film processing. Does not include electrical aspects of film manufacture or details of film material. | Electrical aspects of developing exposed film, exposing photographic paper, scanning negative, developing exposed film and paper. Includes electrical aspects of X-ray film processing. | |
| S06-B09 | Change search term | | Other (photography) | | Includes electrical aspects of X-ray photography (processing is also coded in S06-B04 codes). | Radiate, beam, colour, cassette, medical, tomography, photobooth, separate flash units and lighting units, photothermography. |
| S06-C03 | Change search term | | Printing, press control | | Control of flexographic, offset lithographic, screen printing, gravure etc, printing processes. | Machine, plate, rotating, cylinder, sheet, roll, ink, offset, lithography, stencil printer. |
| Section T | | | | | | |
| T01 Digital Computers | | | | | | |
| T01-C01A | Change scope | | To/from DASD | Includes details of all defined standards, e.g. ATA, SATA, SCSI, iSCSI, IDE | "None" | |
| T01-C03 | Change scope | | Data exChange with distant stations | Connection between to devices, for connection to peripheral (e.g. printer) see T01-C07C3 instead. | "None" | |
| T01-C03C1 | Change scope | | Broadcast radio/television signal input | TV cards | "None" | |
| T01-C07D | Change scope | | Topology | Covers wiring arrangements and connections to interface including power arrangements. Includes interface buses and point-to-point connection. See T01-H07A for bus structures. | Includes interface buses and point-to-point connection. See T01-H07A for bus structure. | |
| T01-D02A | Change search terms | | Watermarking | | | Stenography |
| T01-F06 | Change scope | | Program control arrangements | Covers program arrangements were instructions are pre-programmed before processing is carried out. See T01-M05 for architecture. | Includes record carriers containing only program instructions; using stored programs e.g. control for peripherals. Non-numerical controllers per se are covered by T06-A04B. For disclosure of firmware see T01-S01A. See also U21 for logic devices. | |
| T01-H01C | Change scope | | Memory/Storage Protection Arrangement/method | For data back up/protection see T01-G and T01-F05E. | "None" | |
| T01-J05B3 | Change scope/search | | Search and retrieval | Includes algorithms for reducing time required for searching large data bases e.g. clustering, query formulation, searching and selecting, Presentation of results. For on-line searching see T01-N03A2. | Includes algorithms for reducing time required for searching large data bases e.g. clustering, query formulation, searching and selecting, Presentation of results. | |
| T01-J05B4B | Change search terms | | Relational database | | "None" | |
| T01-J06A | Change scope | | For medicine | See also S05 codes for electrical medical equipment in general. For initial diagnostic, S05-D06A. For continuing monitoring, S05-G02B2A. From 2005 see T01-N01E for on-line systems. For non-medical biological processing see T01-J13A only. | See also S05 codes for electrical medical equipment in general. For initial diagnostic, S05-D06A. For continuing monitoring, S05-G02B2A. From 2005 see T01-N01E for on-line systems. See also T01-J13A for biological analysis. | |
| T01-J15A | Change search terms | | Design and simulation of electrical circuits and hardware | | See also U11 or V04. Includes CAD systems for mask design. | Net groups |
| T01-J15A1 | Change search terms | | Logic circuit, CPU design | | "None" | "None" |
| T01-J15A3 | Change search terms | | Computer simulation of electrical and electronic circuits | | Includes use of graph models, petri net and analog modelling. | Computer timing analysis |
| T01-J15A4 | Change title | Communication Network Design | Network design | | Includes positioning and routing. | |
| T01-J16A | Change scope | | Expert systems | Comprising a system of an integrated collection of facts and relationships, including knowledge base and table searching, question and answering. Includes knowledge base, rule base and table searching. | Comprising a system of an integrated collection of facts and relationships. Including knowledge base and table searching, question and answering. | |
| T01-J16C | Change scope | | Knowledge processing | "None" | Covers the capacity to process knowledge and/or to generate own rules by, e.g. modelling the human brain i.e. neural networks or duplicating the laws of nature e.g. inheritance and evolution. | |
| T01-J16C4 | Change scope | | Genetic algorithms | Duplicating the laws of nature e.g. inheritance and evolution. Includes creating new solutions by dividing and splicing the old and determining the fitness of the new. Also includes artificial life. | Includes creating new solutions by dividing and splicing the old and determining the fitness of the new. Also includes artificial life. | |
| T01-J20B2A | Change search terms | | Software registration and Anti-piracy | | For incorporation of Software registration and Anti-Piracy coding mechanisms at development stage of software. See T01-J20X before 1997. See T01-J05A2G, T01-N01A2G for Intellectual Property and Copyright management. | Software protection |
| T01-J20X | Change search terms | | Other software details | | | "None" |
| T01-J30C | Change scope/search | | Media Players | Includes computer-based media players that are not browser based for playing CDs, DVD's (see also T01-H01B1), videos and audio files. See also W04 and T01-N03A1B for on-line systems. | Includes media players that are not browser based for playing CDs, DVD's (see also T01-H01B1), videos and audio files. See also W04 and T01-N03A1B for on-line systems. | Windows (R) Media Player, iTunes (R) |
| T01-J30D | Change scope | | Computer processing for sports and training equipment | Covers the use of digital computing in sports equipment, see also W04. | "None" | |
| T01-J30F | Change scope | | Image/Video/Audio editing software | See T01-J12 for GUI aspects and W04 for details of thing being edited. | Covers use of digital computing in sports equipment. See also W04. | |
| T01-L01A | Change scope | | Primary power supply | Note that for portable devices the battery is the primary power source and would be coded here (as well as T01-M06A1). | "None" | |
| T01-L01B | Change scope | | Back up power supply | Note that batteries in portable computing devices are not coded here, see T01-L01A. | "None" | |
| T01-N01A2 | Change search terms | | Internet Business models | | Includes Business Models for the Internet, See T01-J05A and T01-H07C5E prior 2002, and T01-J05A2 for non-Internet related Business models. | none (remove e-commerce) |
| T01-N01A2A | Change title/search | e-commerce | E-shop, e-auction, e-mail, and e-services | | Includes seeking suppliers, electronic tendering, See T01-J05A2 together with T01-H07C5E prior to 2002. | |

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| T01-N02A3B | Change scope | | Computer based routing | Includes routing and management of network traffic, also see W01 and see T01-H07C5A prior to 2002. | Includes routers, routing and management of network traffic, also see W01 and see T01-H07C5A prior to 2002. | |
| T01-N02A3C | Change scope | | Servers | Includes processing performed on the server and claimed server devices, see T01-M06S for architecture and construction (along with T01-L). See T01-H07C5S prior to | See T01-H07C5S prior to 2002 | |
| T01-N02B2B | Change scope | | System and Fault monitoring | Includes monitoring systems which are used to monitor computer hardware operation, log events and report failures, see T01-H07C5A prior to 2002. For monitoring of electrical appliances over the internet see T01-N01D and W05. | Includes monitoring systems which are used to monitor computer hardware operation, log events and report failures, see T01-H07C5A prior to 2002. | |
| T03 Data Recording | | | | | | |
| T03-A01G | Change Title | Additional recording area and physical recording format | Additional recording area | | This code covers the physical arrangement of the record carrier into separate areas, either for dedicated (e.g. servo tracks) or general use. Recording formatting on a physically continuous recording surface is covered by T03-A06F1. | Hard sectoring, index, format, pre-format, reference |
| T04 Computer Peripheral Equipment | | | | | | |
| T04-F | Change scope | | Manual input arrangements for computers and computer c | Manual input devices, e.g. keypad, touchscreen, joystick, track pad, etc., for mobile phones go under W01-C01B8 codes only. Includes keyboard/keypad and touchscreens for PDAs (personal digital assistants), handheld game consoles (e.g. Nintendo DS™, Sony PSP™, etc.) and handheld GPS systems. | Only applied if input devices details are given. Covers manual or other physical input arrangements. See T01-C02 codes for interface to computer. Covers input for computer controlled devices, see W01 codes only for phones. | |
| T04-F01 | Change scope | | Keyboards and keypads | If use of keypad/keyboard is not precised, no T04-F code is applied, but V03 codes instead. | For typewriter keyboards see also T04-G. For switch and key actuation aspects see V03-C01, cross reference T01-C02A for keyboard interface. Virtual keyboards are coded in T01-C02B1 only. | |
| T04-G02A1 | Change scope | | Print head for ink jet drop-on-demand printer | Constructional and manufacturing details of printhead go under T04-G11A as well. | "None" | |
| T04-G02B1 | Change scope | | Print head for selective drop deflection printer | Constructional and manufacturing details of printhead go under T04-G11A as well. | "None" | |
| T04-G02E | Change scope | | Recording media | See also X25-T09A for electrical details of paper manufacture. Pre-print application of liquid (not ink) to paper/ pre-treatment of paper for ink jet printing. | See also X25-T09A for electrical details of paper manufacture. | |
| T04-G06A | Change title | Media feeding | Sheet feeding | | See also S06-A12 codes if for copier, W02-J05A if for facsimile. | Paper, CD, DVD |
| T04-G10F | Change scope | Illegal printing prevention | Illegal printing prevention | Only applied if input devices details are given. Covers manual or other physical input arrangements. See T01-C02 codes for interface to computer. Covers input for computer controlled devices, see W01 codes only for phones. | Prevention of illegal printing of private documents etc. recognising or printing copy prevention mark on documents, output to authorised operator. See S06-A14F if for copier, W02-J03C6 and W02-J11 if for facsimile, T01 for image processing aspects, and T05-J for testing of securities, banknotes etc. | |
| T04-G10G | Change scope | | Monitoring of printing | A monitoring code is applied when the smooth running of the printer is checked, by looking at e.g. the health of the components (photoreceptors, belts, drums, etc), the level of toner, ink, etc., the cooling of the components, etc., and usually - but not always - includes details of subsequent actions (adjustment of temperature, speed of ink flow, change toner concentration, display error message, etc.). T04-G10A or T04-G10E is used alongside T04-G10G to precise whether the monitoring is done within the printer or from e.g. a computer. See also S06-A14B for copiers, and W02-J03A5 for facsimiles. | See also T04-G10A/E for internal/external. | |
| T04-H | Change scope | | Visual display units | Display for mobile phones go under W01-C01B3 only. Includes screen for laptops and PDAs (personal digital assistants). Screens for handheld game consoles (e.g. Nintendo DS™, Sony PSP™) are coded under U14 only, but screens plugged into a game console (e.g. Sony PS2™, PS3™, Microsoft Xbox, etc.) are coded under T04-H. Screens in vehicle dashboard are coded in U14 and X22 only, except if controlled with | For signal processing aspects e.g., contrast control, white balance control, etc see also W03 codes. | |
| T04-H03C9 | Change scope | | Other display types | Includes Braille type displays | "None" | |
| T04-K02C | Change scope | | Reading/Writing apparatus | Includes details of circuits, interface, etc. Non-electrical constructional details go under T04-K02C2. | Covers all aspects of the apparatus used to read from or write to smart media, rather than the media itself. | |
| T04-K02C2 | Change scope | | Constructional details of card reader / writer | Includes non-electrical constructional details, e.g. housing, connectors, etc. Details of circuits, interfaces, etc. go under T04-K02C. | "None" | |
| Section U | | | | | | |
| U14 Memories, Film and Hybrid Circuits | | | | | | |
| U14-J | Change scope | | Electroluminescent light sources | For electroluminescent materials see U11-A15. See also X26-J only if device is used for illumination purposes. Excludes devices covered by U12-A01. | For electroluminescent materials see U11-A15. See also X26-J if device is used for illumination purposes. Excludes devices covered by U12-A01. | |
| U14-K01A4C | Change scope | | LCD illumination arrangements | Includes internal and reflection type LCD illumination. From 2007, also see X26-U04A1 for backlighting and backlight circuitry including ambient environment detection and feedback control. See W05-E05B1 and relevant X26 codes prior to 2007. | Includes internal and reflection type illumination. For backlighting see also W05-E05B and X26. See also X26 for backlight circuitry including ambient environment detection and feedback control. | |
| Section V | | | | | | |
| V07 Fibre-Optics and Light Control | | | | | | |
| V07-K01C | Change scope | | Optical amplification | "None" | See also U13-E01 for IC protectors. Covers all novel photonic materials, including e.g. new band-gap technology/arrangements. For photonic fibres see V07-F01A1X, for photonic waveguides see V07-F01A4, and from 2006 see V07-F02D for all other photonic optical elements. | Repeater |
| Section W | | | | | | |
| W02 Broadcasting, Radio and Line Transmission Systems | | | | | | |
| W02-D | Change scope | | Sound broadcast distribution systems | Codes in this group relate to the broadcast system as a whole and to studio / transmitter aspects, and are not assigned for receiver details. Broadcast radio receivers are covered by W03-B codes. For radio broadcast studio equipment see also W04-G08. | W02-F codes take precedence for TV broadcast systems in which audio is transmitted as a normal accompaniment to video signals. 'Interactive' broadcasting systems, including video and sound systems are covered in W02-F10 codes. Details relating to broadcast receivers are covered by W03-A codes (TV receivers) and W03-B codes (radio receivers). | |
| W02-G05 | Change scope | | Transponder, responder, repeater | From 2008 transponders and interrogation systems for RFID application are respectively covered by W02-G05A and W02-G05B and in W06-A04B codes only when there is some RF novelty. T04-K codes, e.g. T04-K03B, can be assigned for any aspect, including memory storage and the like. Transponder-based telemetry or telecontrol is covered by W05-D08G and other W05-D codes as appropriate. Satellite 'transponders', i.e. 'repeaters', are coded in W02-G05C. | Transponders systems for identification and telemetry purposes are covered by W02-G05A and W02-G05B codes (and also W06-A04B codes). Satellite 'transponders', i.e. 'repeaters', are coded in W02-G05C. | |
| W02-J05B | Change scope | | | Includes stapling, binding, laminating and cutting | Includes stapling, binding, laminating | |

| W03 TV and Broadcast Radio Receivers | | | | | | |
|---------------------------------------------------|--------------------------|----------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| W03-A04G | Change title/scope | Ghost suppression and equalising | Ghost suppression circuit | The title of this code has been expanded to reflect the previous inclusion of equalising circuits, even when ghost suppression has not been explicitly mentioned. Prior to 1997, ghost cancelling was also coded in W02-G03B6, which covers compensation for multipath reception in general. From 19701, W03-A04G only has been used for this topic in TV receivers. See also U22-G01 codes for digital filters, especially U22-G01A5 codes which relate to adaptive types and U22-G03E3C for application of DSP to equalising in general. Transmission of ghost control reference signals (GCR) is covered by W02-F05C. | Prior to 1997, ghost cancelling was also coded in W02-G03B6, which covers compensation for multipath reception in general. From 19701, W03-A04G only will be used for this topic in TV receivers. See also U22-G01 codes for digital filters, especially U22-G01A5 codes which relate to adaptive types. Transmission of ghost control reference signals (GCR) is covered by W02-F05C. | |
| W04 Audio/Video Recording and Systems | | | | | | |
| W04-G08 | Change Scope | | Sound recording studio equipment | Use in conjunction with W03-C, W04-U03E, W04-S and other W04-G codes as necessary. Includes all professional audio equipment for use in recording or audio broadcast studio. | Use in conjunction with W03-C, W04-U03E, W04-S and other W04-G codes as necessary. | |
| W04-P01A3 | Change Scope | | Transform coding | "None" | Coding methods and systems using transform coding are also coded in W02-F07B | |
| W04-P01A4 | Change Scope | | Converting between variable and fixed rate encoding | This code is chiefly intended for combined transform and predictive coding. | This code is chiefly intended for combined transform and predictive coding. Coding methods of this type are also coded in W02-F07E1. | |
| W04-P01A5 | Change Scope | | Predictive coding | "None" | Coding methods and systems using predictive coding are also coded in W02-F07C. | |
| W04-P01A7 | Change Scope | | Determining emotional status of speaker | Involves methods for discarding sample values, e.g. by considering values of adjacent sample points. | Involves methods for discarding sample values, e.g. by considering values of adjacent sample points. Also coded in W02-F07D when method or system aspect involved. | |
| W05 Alarms, Signalling, Telemetry and Telecontrol | | | | | | |
| W05-B05 | Change scope | | Alarms with signalling to central station and alarm signal transmission | These codes includes alarms connected (electrically or by e.g. EM transmission) to a police or fire station, i.e. 'central station' alarms. They describe the transmission medium and mode between any alarm sensor and alarm reproducing transducer. Other W05-B codes are assigned as appropriate where alarms of a specific type are involved, e.g. W05-B01 codes for intruder alarms. From 2008, W05-B05A7 is introduced for 'reverse' transmission, i.e. to highlight novel aspects of alarm signalling from a central station to sensors or alarm substations. | These codes includes alarms connected (electrically or by e.g. EM transmission) to a police or fire station, i.e. 'central station' alarms. They also describe the transmission medium between any alarm sensor and alarm reproducing transducer. Other W05-B codes are assigned as appropriate where alarms of a specific type are involved, e.g. W05-B01 codes for intruder alarms. | |
| W05-B05A | Change title/scope | Alarm signalling mode | Monitoring system for alarm sensors | These codes define the mode of communication between sensors and central station. From 2008 the title of this code has been changed to reflect the inclusion of 'reverse' transmission, i.e. to highlight novel aspects of alarm signalling from a central station to sensors or alarm substations, for which W05-B05A7 has been introduced. | These codes define the mode of communication between sensors and central station. | |
| Section X | | | | | | |
| X12 Power Distribution/ Components/ Converters | | | | | | |
| X12-H01B2 | Change scope | | Bulk power transfer/interconnection | Includes arrangements for parallelly feeding a single network by two or more generators, converters, or transformers and also controlling the sharing of output among them. | Also includes synchronising of generators and network/bus bar. | |
| X16 Power Distribution/ Components/ Converters | | | | | | |
| X16-G02C | Change scope/search term | | Using generator | Includes battery charging using an electric generator. | Includes dynamoelectric generators driven by any prime mover e.g. IC engine. | Piezoelectric |
| X22 Automotive Electrics | | | | | | |
| X22-B01A | Change title/scope | | Bulbs | Includes novel light sources such as headlight bulbs per se. | Includes headlight bulbs per se. | |
| X22-D01 | Change scope | | Locks | Includes electrically-operated central locks. Also includes door lock heaters (see also X25-B codes for electric heating per se, and possibly X22-J02C prior to 2007). See Q14-H01 for mechanical aspects of vehicle locks. | Includes electrically-operated central locks. | |
| X22-J | Change scope/search | | Vehicle accessories | Includes electrical aspects of motor vehicle accessories. See Q14 for mechanical details of vehicle accessories. | Includes power stands for motorcycles; etc. Also includes electrical accessories not covered elsewhere such as refrigerated cool box (see also X27-F codes) powered from cigar lighter socket (see also X22-F05). | "None" |
| X22-J02 | Change scope | | Heating, ventilating, air-conditioning | Includes electrical aspects of overall passenger compartment HVAC systems. | Includes electrical aspects of overall HVAC systems | |
| X22-J02C | Change scope | | Heating | Includes heating for passenger compartments. See X25-B01 codes for electrical heating per se. | Includes heating for passenger compartments, door locks etc. | |
| X22-J02D | Change scope | | Ventilating | Includes electrical aspects of passenger compartment ventilating. See X22-J02E instead if ventilator/blower is part of an air-conditioning/climate control system. See X22-J03A5 instead for ventilated seats. | Includes electrical aspects of passenger compartment ventilating. See X22-J02E instead if ventilator/blower is part of an air-conditioning/climate control system and X22-J03A if ventilator is for cooling vehicle seat. | |
| X22-J99 | Change scope | | Other vehicle accessories | Includes power stands for motorcycles (see X22-P02 also), electric steps, etc. Also includes electrical accessories not covered elsewhere such as refrigerated cool box (see also X27-F codes) powered from cigarette lighter socket (see also X22-F05). See Q14 instead for mechanical vehicle accessories. | See Q14 instead for mechanical vehicle accessories. Includes refrigerators and built-in coolers (see also X27-F codes). | |
| X22-K | Change scope | | Multiplexing/networking/communications | From 2007 this code has been expanded to include all multiplexing, networking and communication systems present in a vehicle (intra-vehicle), between vehicles (inter-vehicle) and between vehicles and the roadside (for road toll devices, see also X22-X07). See also W05-D codes which cover novel aspects of systems transmitting measurement or control signals, and W01-A06 codes for novel aspects of data networks. See X22-X for general intra/inter-vehicle communications prior to 2007. | From 2007 this code has been expanded to include all multiplexing, networking and communication systems present in a vehicle (intra-vehicle), between vehicles (inter-vehicle) and between vehicles and the roadside (for road toll devices, see also X22-X07). See also W05-D codes which cover novel aspects of systems transmitting measurement or control signals, and W01-A06 codes for novel aspects of data networks. See X22-X for general intra/inter-vehicle communications prior to 2007. For vehicle telephone and hands-free systems see W01 codes instead. | |
| X26 Lighting | | | | | | |
| X26-H | Change scope | | LEDs; circuits | Includes all LEDs only when used for illumination | Includes semiconductor P-N junction type LEDs, and their circuits, when used for illumination. See also U12-A01 codes for LEDs per se. OLED- or organic LED-based lighting is covered by X26-J. | |