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# Cables Selection Guide

## View our extensive range of cables and accessories

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## INTRODUCTION



As industry experts we offer an extensive selection of Cable for every application and environment. Products from our RS PRO range bring you high quality, professionally approved RS brand products, while our wide choice from selected market leading brands is second to none.

This means you can find all the products you need from one source, with next day delivery, competitive pricing and bulk discounts.

In this guide you can see Cables listed by type, with associated technical attributes and information about where they are best installed.

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## APPROVALS AND STANDARDS

**BASEC:** The British Approvals Service for Cables is an independent testing and approvals body for cable and wire. BASEC certification ensures a product meets its claimed national and international standards.

**UL:** A UL Listed cable or wire indicates that product samples have passed safety requirements set by the safety and certification company, Underwriters Laboratories. UL is an internationally recognised standard.

**DEF STAN:** A cable marked as meeting a Defence Standard (DEF STAN) will be of a high grade and high specification for use by the MoD, specifically for aircraft and military applications.

**Mil Spec:** A cable or wire which complies with Mil Spec (Military Specification) means it is approved for United States military use. Mil Spec can also apply to products other than cables, such as connectors.

**RoHS:** The Restriction of Hazardous Substances Directive specifies maximum limits of certain hazardous substances in electrical and electronic products. Cable and wire is included in this.

**REACH:** REACH is an acronym of Registration, Evaluation, Authorisation and Restriction of Chemicals. As a European regulation designed to protect human health from the risks posed by chemicals, REACH is applicable to cables and wires by the production and use of chemicals in the sheath and other parts.

## CABLE SHEATH TYPES

A summary of commonly found sheath types in the RS range:

**PVC** Polyvinyl Chloride
- Excellent insulating properties
- Stable, robust, very durable
- Cost effective choice

**Rubber**
- Ideal for outdoor and wet environments
- Withstands rough treatment
- Abrasion proof

**PTFE** Polytetrafluoroethylene
**ETFE** Ethylene Tetrafluoroethylene (also known as TEFZEL)
- Used in high temperature applications
- Unaffected by most oils or fuels
- Certain types suitable for temperatures to 400°C

**LSZH** Low Smoke Zero Halogen
- Preferred type for populated or enclosed areas
- Used in trains, aircraft and shipping applications
- Suitable in areas of poor ventilation

**PE** Polyethylene
- Used extensively in communication cabling
- Excellent UV resistance
- Available in high and low density forms (HDPE/LDPE)

**XLPE** Cross linked polyethylene
- Widely used for power cables
- Improved insulating properties over PVC
- Higher current rating than PVC

**EPR** Ethylene propylene rubber
- Offers good weathering stability
- Heat resistant to 160°C
- Durable and long lasting

**PET** Polyethylene terephthalate
- Moisture resistant and tough
- Good chemical resistance
- Excellent mechanical, electrical and thermal properties

**FEP** Fluorinated ethylene propylene
- Good weather resistance
- Low flammability
- Good temperature stability

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## EUROCLASS – AN EXPLANATION

**CPR – The Construction Products Regulation**

Since 1st July 2017 the CPR covers all construction cables to be used in fixed installations, sold in the E.U.

Effected products are tested, given a Euroclass rating in accordance with its 'Reaction to fire', a declaration of performance is issued (DOP) and a new CE mark is given on the packaging.

**Note:** Fire resistant cables are excluded from CPR until the product standard for 'Resistance to Fire' is issued.

## HARMONISED REFERENCES

The Harmonised reference system, commonly known as HAR, indicates products which conform to a European Harmonisation Standard as set out by CENELEC, the leading European standardisation organisation. CENELEC is technologically neutral and aims to improve standards and quality across Europe, allowing the trade of common standard product.

HAR cables have a designation code system conforming to the norms set out in harmonisation documents HD 361 and DIN VDE 0292.

## WIRE SIZING – AWG AND CSA

**AWG** - American Wire Gauge. A widely accepted measure of cross sectional area of a wire denoted as a simple number.

**CSA** - The surface Cross-Sectional Area of a conductor in mm².

Both units of measure are used in determining wire thickness and it is useful to remember that as AWG increases, the wire becomes thinner and the CSA decreases.

An approximate conversion between AWG and CSA is shown opposite for selected sizes.

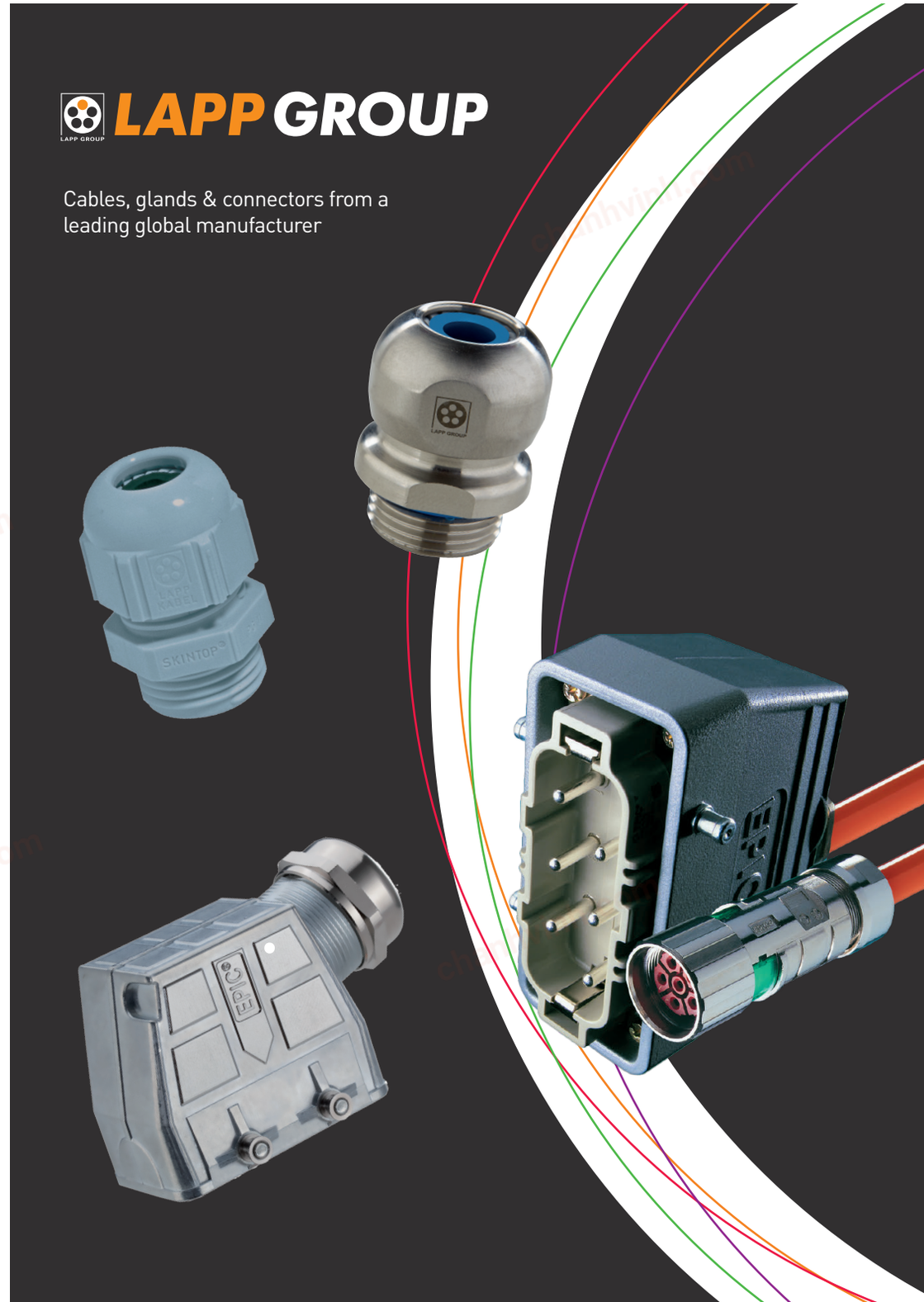
The complete AWG range for wire contains over 40 sizes with respective cross sectional areas and current carrying capacities.

| AWG | CSA (mm²) |
|---|---|
| 0 | 53.5 |
| 5 | 16.76 |
| 7 | 10.55 |
| 10 | 5.26 |
| 12 | 3.31 |
| 15 | 1.65 |
| 18 | 0.82 |
| 20 | 0.52 |
| 25 | 0.16 |

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Cables, glands & connectors from a leading global manufacturer



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## ELECTRICAL SCREENING

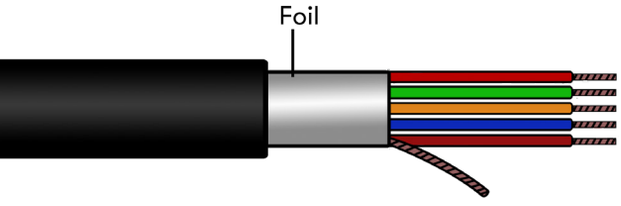
Cable screening is important in many wiring applications. Screening protects a conductor from external interference or EMI, prevents radiation from the cable itself and helps minimise cross-talk between conductors.

Various degrees of screening are used according to the cable type and application. From unshielded power or control cable used in areas not prone to interference, e.g. within a metal control cabinet, to foil or braid shielded cable for areas of high EMI or electrical interference.

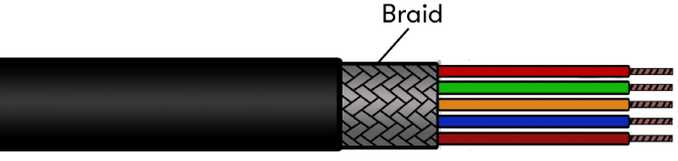
### Types of screening



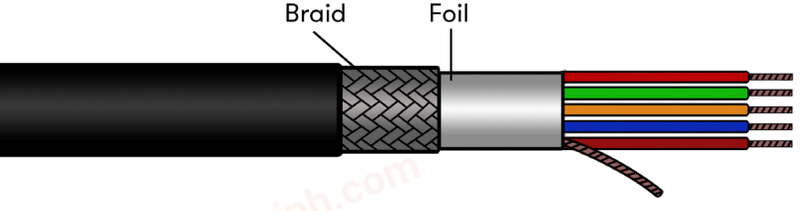
**Unshielded**




**Foiled**




**Braided**




**Foiled, braided**

### Twisted pair (TP) screening

**UTP**
Unshielded



**FTP**
Foiled



**STP**
Shielded, unfoiled



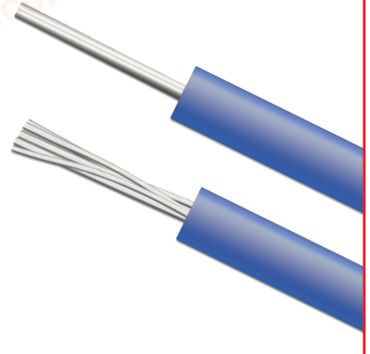
**SF/TP**
Shielded, foiled



### CONDUCTOR TYPES

**Solid core wire**
Solid core wire consists of one single core, usually copper, forming a conductor and insulated. It has a higher resistance to flexing than stranded wire so is best suited to permanent and semi-permanent wiring. Solid core cable costs less to manufacture than stranded core and has a lower electrical resistance.

**Stranded core wire**
For a given gauge, stranded wire withstands flexing more than its solid core equivalent. Stranded wire is best suited where frequent flexing or vibration is more likely to occur, e.g. automotive applications, signal wiring in electrical and electronic devices, flexible power cables etc. With a higher attenuation than solid core it is not best suited to long cable runs.



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## British Standard

PVC insulated cables to BS4808. Also meets the requirements of DEF STAN 61-12 Part 6 and are flame resistance to UL1581 VW-1 and IEC60332-1.

Designed for the internal cabling of electrical and electronic equipment. Used also for wiring within instrumentation and control panels.

It is a flexible cable with a durable PVC protective sheath and copper conductors, available in multiple colours, ideal for colour-coding cable installations

The cable offers good insulation due to the PVC insulation material and installation is easy and efficient thanks to the flexible layout of the cable

- Operating temperature: -15°C to +85°C
- Voltage Rating: 1000V AC max.



| Brand | Core Strands | Reel Length | Black | Blue | Brown | Green | Grey | Orange | Pink | Red | Violet | White | Yellow | Green Yellow | Yellow Green |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RS PRO | 1/0.6mm | 100m | 196-4298 | 196-4299 | 196-4300 | 196-4301 | 196-4302 | 196-4303 | 196-4304 | 196-4305 | 196-4306 | 196-4307 | 196-4308 | - | - |
| | 7/0.2mm | 100m | 196-4211 | 196-4212 | 196-4213 | 196-4215 | 196-4216 | 196-4217 | 196-4218 | 196-4219 | 196-4221 | 196-4222 | 196-4223 | 196-4237 | - |
| | 7/0.2mm | 500m | 196-4224 | 196-4225 | 196-4226 | 196-4227 | 196-4228 | 196-4229 | 196-4230 | 196-4231 | 196-4232 | 196-4233 | 196-4234 | - | - |
| | 16/02mm | 100m | 196-4253 | 196-4254 | 196-4255 | 196-4256 | 196-4257 | 196-4259 | 196-4260 | 196-4261 | 196-4262 | 196-4263 | 196-4264 | 196-4279 | 196-4294 |
| | 16/02mm | 500m | 196-4265 | 196-4266 | 196-4267 | 196-4268 | 196-4269 | 196-4271 | 196-4272 | 196-4273 | 196-4274 | 196-4275 | 196-4276 | - | - |
| | 24/02mm | 100m | 196-4310 | 196-4311 | 196-4312 | 196-4313 | 196-4314 | 196-4316 | 196-4317 | 196-4318 | 196-4319 | 196-4320 | 196-4321 | 196-4331 | 196-4332 |
| | 24/02mm | 500m | 196-4322 | 196-4323 | 196-4324 | - | 196-4325 | 196-4326 | - | 196-4327 | 196-4328 | 196-4329 | 196-4330 | - | - |
| | 32/0.2mm | 100m | 196-4333 | 196-4334 | 196-4335 | 196-4336 | 196-4338 | 196-4339 | 196-4340 | 196-4341 | 196-4342 | 196-4344 | 196-4345 | 196-4354 | 196-4355 |
| | 32/0.2mm | 500m | 196-4346 | 196-4347 | 196-4348 | 196-4349 | - | 196-4350 | 196-4351 | 196-4352 | - | 196-4353 | - | - | - |

## Tinned Copper Wire



BS EN13062 compliant wire is of a tinned annealed copper construction suited for use as rewireable fuse links, shorting links etc. It is manufactured to BS4109.

| Brand | RS Stock Number | Diameter | AWG | Current Rating | Reel Length |
|---|---|---|---|---|---|
| RS PRO | 390-555 | 0.35mm | 28 | 10A | 234m |
| | 390-549 | 0.51mm | 24 | 15A | 114m |
| | 355-085 | 0.56mm | 24 | 17A | 91.3m |
| | 355-079 | 0.71mm | 21 | 25A | 50.9m |
| | 355-063 | 0.91mm | 19 | 33A | 34.6m |
| | 355-057 | 1.22mm | 17 | 45A | 20.2m |
| | 390-527 | 2.03mm | 12 | 100A | 7.1m |

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# DEF STAN

Cables designed to meet the requirements of DEF STAN 61-12 Part 29/1 are used typically in high demand applications found in military, avionic, aerospace, nuclear and medical environments.

Our range includes RS PRO with ETFE insulation, ideally suited to high temperature applications and resistant to oils.

TE type 44® has a dual-wall insulation, is easy to install and offers consistent reliability.

A key feature of our TE type 55® range is its blue core which acts as a damage indicator.

TE type 99®, again with dual wall construction, meets the stringent performance demands of naval and mass transit applications and industrial control panel wiring.



| Brand | RS Stock Number | AWG | Sheath Material | Min Temp (°C) | Max Temp (°C) | Wire Style | Sheath Colour | Reel Length |
|---|---|---|---|---|---|---|---|---|
| RS PRO | 885-0862 | 12 | ETFE | -75 | +150 | DEF STAN 61-12 Part29/1 | White | 100m |
| | 885-0822 | 16 | ETFE | -75 | +150 | DEF STAN 61-12 Part29/1 | Black | 100m |
| | 885-0878 | 18 | ETFE | -75 | +150 | DEF STAN 61-12 Part29/1 | White | 100m |
| | 885-0834 | 20 | ETFE | -75 | +150 | DEF STAN 61-12 Part29/1 | Black | 100m |
| TE connectivity | 229-1466 | 20 | Polyalkene | -65 | +150 | Type 44 | White | 100m |
| | 229-1450 | 20 | Polyalkene | -65 | +150 | Type 44 | Black | 100m |
| | 329-9629 | 20 | Polyalkene | -65 | +150 | Type 44 | Red | 100m |
| | 869-7312 | 20 | Polyalkene | -65 | +150 | Type 44 | Black/White | 100m |
| | 229-1438 | 22 | Polyalkene | -65 | +150 | Type 44 | White | 100m |
| | 229-1422 | 22 | Polyalkene | -65 | +150 | Type 44 | Black | 100m |
| | 329-9641 | 22 | Polyalkene | -65 | +150 | Type 44 | Red | 100m |
| | 329-9556 | 22 | Polyalkene | -65 | +150 | Type 44 | Blue | 100m |
| | 229-1400 | 24 | Polyalkene | -65 | +150 | Type 44 | Black | 100m |
| | 329-9613 | 24 | Polyalkene | -65 | +150 | Type 44 | Red | 100m |
| | 329-9433 | 20 | ETFE | -65 | +150 | Type 55 | White | 100m |
| | 329-9455 | 22 | ETFE | -65 | +150 | Type 55 | White | 100m |
| | 329-9461 | 22 | ETFE | -65 | +150 | Type 55 | Black | 100m |
| | 329-9477 | 24 | ETFE | -65 | +150 | Type 55 | White | 100m |
| | 329-9483 | 24 | ETFE | -65 | +150 | Type 55 | Black | 100m |
| | 398-0959 | 20 | PET | -55 | +125 | Type 99 | White | 100m |
| | 398-0993 | 20 | PET | -55 | +125 | Type 99 | Black | 100m |
| | 398-0965 | 20 | PET | -55 | +125 | Type 99 | Red | 100m |
| | 398-0909 | 22 | PET | -55 | +125 | Type 99 | White | 100m |
| | 398-0937 | 22 | PET | -55 | +125 | Type 99 | Black | 100m |
| | 398-0943 | 22 | PET | -55 | +125 | Type 99 | Pink | 100m |

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# Harmonised

Compliant to European Harmonised Standards H05V-K and H07V-K, harmonised cables are colour-coded PVC sheathed cables with a single stranded untinned copper core.

Harmonised cable is widely used in lighting, wiring installation work within control and distribution panels, in conduits, channels, and buried in walls and plaster.

First introduced in 2004, the harmonised colour code clearly differentiates between conductors in single and three phase circuits.



| Brand | CSA | Wire Style | Reel Length | Black | Blue | Brown | Red | White | Green Yellow |
|---|---|---|---|---|---|---|---|---|---|
| RS PRO | 0.5mm² | H05V-K | 100m | 361-579 | 361-585 | 361-591 | 361-614 | 361-620 | - |
| | 0.75mm² | H07Z-K | 100m | 763-7573 | 763-7570 | 763-7577 | 763-7589 | 763-7583 | 763-7586 |
| | 1.0mm² | H05V-K | 100m | 361-715 | 361-721 | 361-737 | 361-759 | 361-765 | 361-743 |
| | 1.5mm² | H05V-K | 100m | 361-787 | 361-793 | 361-800 | 361-822 | 361-838 | 361-816 |
| | 1.5mm² | H07Z-K | 100m | 763-7618 | 763-7615 | 763-7612 | - | 763-7628 | 763-7621 |
| | 2.5mm² | H05V-K | 100m | 361-850 | 361-866 | - | - | - | - |
| | 2.5mm² | H07Z-K | 100m | 763-7630 | 763-7637 | - | 763-7646 | 763-7640 | 763-7643 |
| LAPP GROUP | 0.5mm² | H05V-K | 100m | 724-4314 | 724-4311 | 724-4323 | 724-4305 | 724-4317 | 724-4301 |
| | 0.75mm² | H05V-K | 100m | 724-4339 | 724-4333 | 724-4342 | 724-4345 | 724-4349 | 724-4336 |
| | 1.0mm² | H05V-K | 100m | 724-4364 | 724-4367 | 724-4370 | 724-4361 | 724-4373 | 724-4355 |
| | 1.5mm² | H05V-K | 100m | 724-4383 | 724-4392 | 724-4395 | 724-4399 | 724-4409 | 724-4389 |
| | 1.5mm² | H07V-K | 100m | 721-0639 | 721-0633 | 721-0642 | 721-0645 | 721-0649 | 721-0636 |
| | 2.5mm² | H07V-K | 100m | 724-4418 | 724-4412 | 724-4421 | 724-4424 | 724-4428 | 724-4415 |
| | 2.5mm² | H07Z-K | 100m | 721-0664 | 721-0667 | 721-0661 | 721-0670 | 721-0673 | 721-0655 |
| | 4.0mm² | H07V-K | 100m | 812-4573 | 815-8393 | 815-8396 | 815-8390 | 815-8400 | 815-8380 |
| | 6.0mm² | H07V-K | 100m | 812-4577 | 815-8422 | 815-8425 | 815-8435 | 815-8429 | - |

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# UL Standard

UL Standard cables meet the Underwriters Laboratories (UL) testing classification. They consist of a category of wire and cable that have been independently tested to conform to the specifications for use in many applications including general purpose wiring circuits, control circuits and internal appliance wiring.

UL Standard cables have single stranded cores, are supplied in various single colours, with three sheath constructions. A wide range of cables/wires meet UL standards and it is UL's evaluation of the product that determines its area of use.



| Brand | AWG | Sheath Material | Voltage Rating | Min. Temp (°C) | Max. Temp (°C) | Wire Style | Reel Length | White | Black | Red | Green | Yellow | Blue | Brown | Orange | Grey | Violet |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RS PRO | 18 | PVC | 300 | 0 | +80 | UL1007 | 100m | - | 207-5299 | 207-5300 | - | - | - | - | - | - | |
| | 20 | PVC | 300 | 0 | +80 | UL1007 | 100m | 207-5302 | 207-5301 | - | - | - | - | - | - | - | - |
| | 22 | PVC | 300 | 0 | +80 | UL1007 | 100m | 207-5307 | 207-5303 | 207-5306 | 207-5305 | 874-0453 | 207-5304 | - | - | 874-0450 | - |
| | 26 | PVC | 300 | 0 | +80 | UL1007 | 100m | 874-0419 | 874-0393 | 874-0406 | - | 874-0416 | 874-0400 | - | - | - | - |
| | 28 | PVC | 300 | 0 | +80 | UL1007 | 100m | 874-0371 | 874-0361 | 874-0374 | 874-0380 | - | 874-0377 | - | - | - | - |
| | 22 | PVC | 600 | 0 | +105 | UL1015 | 100m | - | 207-5285 | 207-5287 | - | 872-4640 | - | - | - | - | 872-4656 |
| | 24 | PVC | 600 | 0 | +105 | UL1015 | 100m | - | 207-5288 | 207-5290 | 207-5289 | 872-4622 | - | - | - | - | - |
| AlphaWire | 16 | PVC | 300 | -40 | +105 | UL1007 | 30m | 333-385 | 333-408 | 333-414 | 333-420 | 333-436 | 333-442 | 333-458 | 333-464 | 333-470 | - |
| | 18 | PVC | 300 | -40 | +105 | UL1007 | 30m | 331-733 | 331-749 | 331-755 | 331-761 | 331-777 | 331-783 | 331-799 | 331-806 | 331-812 | 331-828 |
| | 20 | PVC | 300 | -40 | +105 | UL1007 | 30m | 331-856 | 331-862 | 331-878 | 331-884 | 331-890 | 331-907 | 331-913 | 331-929 | 331-935 | 331-941 |
| | 24 | PVC | 300 | -40 | +105 | UL1007 | 30m | 176-9788 | 176-9794 | 176-9801 | 176-9817 | 332-001 | 176-9823 | 332-023 | 332-039 | 332-045 | 332-051 |
| | 16 | PVC | 600 | -20 | +105 | UL1015 | 30m | 121-4293 | 121-4284 | 121-4290 | 121-4287 | 121-4294 | 121-4285 | 121-4286 | 121-4289 | 121-4291 | 121-4292 |
| | 24 | PVC | 600 | -20 | +105 | UL1015 | 30m | 333-521 | 333-537 | 333-543 | 333-559 | 333-565 | 333-571 | 333-587 | 333-593 | 333-600 | - |
| | 16 | PTFE | 600 | -60 | +200 | UL1213 | 30m | 177-1393 | 177-1400 | 177-1416 | 177-1422 | 177-1438 | 177-1450 | 177-1466 | 177-1472 | 177-1488 | 177-1494 |
| | 18 | PTFE | 600 | -60 | +200 | UL1213 | 30m | 177-1286 | 177-1292 | 177-1309 | 177-1315 | 177-1321 | 177-1337 | 177-1343 | 177-1359 | 177-1365 | 177-1371 |
| | 20 | PTFE | 600 | -60 | +200 | UL1213 | 30m | 177-1179 | 177-1185 | 177-1191 | 177-1208 | 177-1214 | 177-1236 | 177-1242 | 177-1258 | 177-1264 | 177-1270 |
| | 22 | PTFE | 600 | -60 | +200 | UL1213 | 30m | 177-1062 | 177-1078 | 177-1084 | 177-1090 | 177-1107 | 177-1113 | 177-1129 | 177-1135 | 177-1141 | 177-1157 |
| | 24 | PTFE | 600 | -60 | +200 | UL1213 | 30m | 177-0952 | 177-0968 | 177-0974 | 177-0980 | 177-0996 | 177-1012 | 177-1028 | 177-1034 | 177-1040 | 177-1056 |
| LAPP GROUP | 13 | PVC | 600 | -40 | +70 | UL1015 | 100m | - | 724-4282 | - | - | - | 724-4291 | 724-4294 | - | 724-4298 | - |
| | 15 | PVC | 600 | -40 | +70 | UL1015 | 100m | - | 724-4260 | - | - | - | 724-4279 | 724-4272 | - | 724-4276 | - |
| | 17 | PVC | 600 | -40 | +70 | UL1015 | 100m | - | 724-4248 | - | - | - | 724-4257 | 724-4250 | - | 724-4254 | - |
| | 18 | PVC | 600 | -40 | +70 | UL1015 | 100m | - | 724-4226 | - | - | - | 724-4235 | 724-4238 | - | 724-4232 | - |
| | 20 | PVC | 600 | -40 | +70 | UL1015 | 100m | - | 724-4204 | - | - | - | 724-4213 | 724-4216 | - | 724-4210 | - |

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# Tri-Rated

Tri-Rated cable is sought-after globally as the certification allows its use around the world.

The triple rating of BS6231 (UK), CSA TEW (Canada) and UL style 1015, 1028 or 1283 (America) makes it acceptable across many markets, for applications including high voltage wiring within electrical cabinets, switchgear wiring, rectifier equipment and motor starter circuitry.

Tri-Rated is a flexible, single stranded cable with a high temperature rating and flame retardant PVC sheath. Various colours are available as recognised under the European Harmonised designation codes H05V2-K and H07V2-K.



- Reel length 100m

| Brand | Size | Black | Dark Blue | Brown | Green | Grey | Orange | Pink | Red | Violet | White | Yellow | Green Yellow |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RS PRO | 0.5mm² | 180-5909 | 180-5911 | 180-5910 | 180-5967 | 180-5916 | 180-5915 | 180-5920 | 180-5914 | 180-5912 | 180-5918 | 180-5917 | 180-5919 |
| | 0.75mm² | 180-5921 | 180-5922 | 180-5923 | 180-5968 | 180-5924 | 180-5931 | 180-5928 | 180-5926 | 180-5925 | 180-5927 | 180-5932 | 180-5930 |
| | 1.0mm² | 180-5936 | 180-5941 | 180-5933 | 180-5970 | 180-5942 | 180-5940 | 180-5944 | 180-5938 | 180-5943 | 180-5937 | 180-5939 | 180-5934 |
| | 1.5mm² | 180-5946 | 180-5947 | 180-5949 | 180-5969 | 180-5953 | 180-5952 | 180-5945 | 180-5950 | 180-5971 | - | 180-5951 | 180-5955 |
| | 2.5mm² | 180-5956 | 180-5959 | 180-5962 | 180-5972 | 180-5964 | 180-5958 | 180-5966 | 180-5960 | 180-5963 | 180-5954 | 180-5961 | 180-5965 |
| | 4mm² | 811-1442 | 811-1436 | 811-1451 | 815-8627 | 811-1458 | 815-8618 | 815-8611 | 811-1448 | 815-8615 | 815-8624 | 811-1454 | 811-1445 |
| | 6mm² | 811-1470 | 811-1476 | 811-1489 | 815-8649 | 811-1464 | 815-8630 | - | 811-1467 | - | 815-8646 | 811-1460 | 811-1473 |
| | 10mm² | 628-5320 | 628-5291 | 628-5493 | 815-8661 | 628-5516 | 815-8652 | - | 628-5314 | 815-8659 | 815-8668 | - | 628-5358 |
| | 16mm² | 628-5342 | 628-5364 | 628-5538 | - | 628-5544 | - | - | 628-5370 | - | 815-8680 | 628-5386 | 628-5409 |
| | 25mm² | 815-8687 | - | - | - | 815-8703 | - | - | 628-5421 | - | - | - | 628-5465 |


See our full range of Cable Ties...

...in a wide choice of materials, colours and lengths

View our Cable Tie Range



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A Member of the ABB Group

RS PRO

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# CY

CY cables are screened flexible cables typically used in applications requiring interference-free transmission. They have a multi-core flex, tinned copper wire braid and polyethylene terephthalate separator, which protects it from external electromagnetic influences. CY is suitable for flexible use when temporarily moved without tensile stress, can be used outdoors when protected from UV radiation and in dry or moist conditions indoors, including oil-water mixtures.



Available in 3, 4, 5, and 7-core types with colour-coded individual cores, in accordance with the European Harmonised designation. Belden Machflex CY cable is manufactured in accordance with VDE 2050 standard.

- Reel length 50m/100m

| Brand | CSA | 3 Core | 4 Core | 5 Core | 7 Core |
|---|---|---|---|---|---|
| RS PRO | 0.5mm² | 136-8211 | 136-8213 | 827-4151 | 827-4167 |
| | 0.75mm² | 522-519 | 522-428 | 827-4155 | 827-4161 |
| | 1mm² | 522-529 | 522-525 | 827-4164 | 827-4170 |
| | 1.5mm² | 522-575 | 522-626 | 522-581 | 522-553 |
| | 2.5mm² | 777-4972 | 522-636 | 522-557 | 827-4173 |
| BELDEN SENDING ALL THE RIGHT SIGNALS | 0.75mm² | 176-2318 | 176-2329 | 176-2340 | - |
| | 1mm² | 176-2321 | 176-2331 | 176-2343 | - |
| | 1.5mm² | 176-2364 | 176-2335 | 176-2417 | - |
| | 2.5mm² | 176-2326 | 176-2338 | 176-2350 | - |



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Nylon Cable Glands


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## SY



As an armoured flexible control cable, SY cable derives its strength and durability from a galvanised steel wire braid. Stronger than CY and YY, SY cable is widely used in industrial applications and can be used in installations where free movement is required without tensile stresses.

Suitable for internal dry, damp or wet environments - including oil-water mixtures - they are not suitable for outdoor applications. Our range is available in 2 to 25-cores with harmonised core colours of stranded copper.

- Reel length 50m

| Brand | CSA | 2 Core | 3 Core | 4 Core | 5 Core | 7 Core | 12 Core | 18 Core | 25 Core |
|---|---|---|---|---|---|---|---|---|---|
| RS PRO | 0.75mm² | 827-4202 | 196-4661 | 196-4678 | - | 827-4218 | 827-4228 | 827-4237 | 827-4230 |
| | 1mm² | 196-4657 | 196-4692 | 196-4683 | 196-4682 | 196-4685 | 196-4704 | 522-648 | 196-4701 |
| | 1.5mm² | 196-4656 | 196-4724 | 196-4723 | 196-4712 | 196-4679 | 196-4676 | 522-658 | - |
| | 2.5mm² | - | 196-4726 | 196-4717 | 196-4727 | 827-4212 | - | - | - |
| | 4mm² | - | 196-4689 | 196-4710 | 827-4206 | - | - | - | - |
| | 6mm² | - | - | 196-4714 | 827-4215 | - | - | - | - |
| BELDEN SENDING ALL THE RIGHT SIGNALS | 0.75mm² | - | - | - | 176-2341 | 176-2352 | 176-2314 | - | - |
| | 1mm² | - | 176-2322 | 176-2332 | 176-2344 | - | 176-2315 | - | - |
| | 1.5mm² | - | - | 176-2336 | 176-2347 | 176-2357 | 176-2316 | - | - |



Heatshrink Sleeving

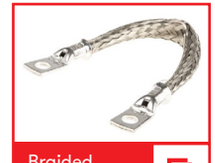

Cable Ties


Cable Marking Kits


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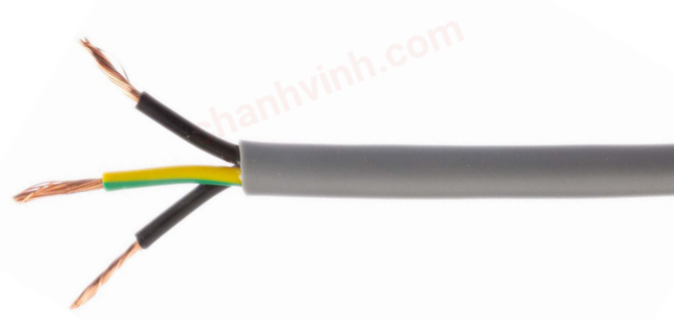


# YY

YY cable is unshielded, highly flexible, PVC-sheathed multi-core power and signal control cable used for a wide variety of industrial applications. Suitable for outdoor use when protected against direct sunlight, and indoors in dry or moist conditions. The tough outer PVC sheath protects against light mechanical and environmental stresses. Belden YY Cable is manufactured to VDE 2050. Our YY range is available in 3 to 25 stranded conductors, with core colours of green/yellow and varying numbered black cores.

YY control cables are not suitable for fixed wiring applications requiring compliance with the requirements of BS7671.

- Reel length 50m



| Brand | CSA | 2 Core | 3 Core | 4 Core | 5 Core | 7 Core | 8 Core | 12 Core | 18 Core | 25 Core |
|---|---|---|---|---|---|---|---|---|---|---|
| RS PRO | 0.75mm² | 827-4243 | 196-4675 | 196-4669 | 827-4278 | 827-4296 | - | 522-468 | 522-478 | 827-4313 |
| | 1mm² | 827-4246 | 196-4702 | 196-4672 | 827-4287 | 827-4290 | - | 827-4303 | 827-4316 | 827-4322 |
| | 1.5mm² | 827-4240 | 196-4695 | 522-604 | 196-4693 | 196-4665 | 522-452 | - | 522-474 | 827-4325 |
| | 2.5mm² | 827-4259 | 196-4677 | 196-4686 | 196-4691 | 777-4966 | - | 522-496 | - | 827-4329 |
| | 4mm² | - | 827-4256 | 827-4262 | - | - | - | - | - | - |
| | 6mm² | - | 827-4265 | 827-4271 | 827-4284 | - | - | - | - | - |
| BELDEN SENDING ALL THE RIGHT SIGNALS | 0.75mm² | - | 176-2317 | 176-2328 | 176-2339 | 176-2351 | - | 176-2313 | - | - |
| | 1mm² | - | 176-2320 | 176-2330 | 176-2403 | 176-2353 | 176-2359 | - | - | - |
| | 1.5mm² | - | 176-2323 | 176-2334 | 176-2345 | 176-2417 | 176-2360 | - | - | - |
| | 2.5mm² | - | 176-2325 | 176-2337 | 176-2348 | 176-2358 | - | - | - | - |



Heatshrink Sleeving


Cable Ties


Cable Marking Kits


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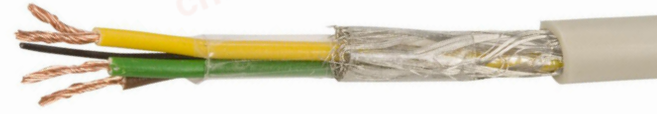


# Unitronic LiYCY & LiYY

**Unitronic® LiYCY** is a screened, low frequency data transmission cable with DIN 47100 colour coding and stranded layered cores. This PVC-sheathed cable is used in RS232 work, computers, electronic control devices, measurement applications and automated production environments.

**Unitronic® LiYY** is an unscreened, low frequency data transmission cable. This is the classic cable for multi-functional use across instrumentation, control, and automation. Small cable diameter is a key feature for space saving installations.

Cables are oil-resistant and flame retardant to IEC 60332-1-2. Our range is supplied in 2 to 25 core types.



## Unitronic LiYCY

- Tinned copper overall braid
- Voltage Rating: 250V
- Temperature Range: -40°C to +80°C
- Reel Length: 100m

| Brand | CSA | 2 Core | 3 Core | 4 Core | 5 Core | 6 Core | 7 Core | 8 Core | 10 Core | 12 Core | 14 Core | 16 Core | 20 Core | 25 Core |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LAPP GROUP | 0.14mm² | 445-1569 | 445-1575 | 491-8630 | 445-1581 | 491-8494 | 445-1597 | 445-1604 | 445-1610 | 445-1626 | 491-8911 | 491-8646 | 491-8652 | - |
| | 0.25mm² | 445-1648 | 445-1654 | 491-8674 | 445-1676 | 491-8680 | 445-1682 | 445-1698 | 445-1705 | 445-1711 | 491-8696 | 445-1733 | 491-8703 | 445-1749 |
| | 0.34mm² | 445-1755 | 445-1761 | 491-8450 | 445-1777 | 491-8731 | 445-1783 | 445-1799 | 445-1806 | 445-1812 | 491-8775 | 491-8602 | 491-8769 | 491-8719 |
| | 0.5mm² | 491-8466 | 491-8624 | 491-8416 | 491-8422 | 491-8438 | 491-8747 | 491-8876 | 491-8517 | 491-8523 | - | - | 491-8545 | 491-8551 |

## Unitronic LiYY

- Unscreened
- Voltage Rating: 500V
- Temperature Range: -40°C to +80°C
- Reel Length: 100m

| Brand | CSA | 2 Core | 3 Core | 4 Core | 5 Core | 7 Core | 8 Core | 10 Core | 12 Core | 14 Core | 16 Core | 20 Core | 25 Core |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LAPP GROUP | 0.14mm² | 445-1395 | 445-1402 | 491-8567 | 491-8573 | 491-8589 | - | 445-1424 | 491-8618 | 491-8595 | 491-8488 | 491-8472 | 491-8753 |
| | 0.25mm² | 445-1430 | 445-1452 | 491-8983 | - | 491-8781 | 445-1474 | 445-1480 | 491-9009 | 491-8905 | 445-1496 | 491-9043 | 491-9037 |
| | 0.34mm² | 445-1519 | 445-1525 | - | 445-1531 | 491-8848 | 445-1547 | - | 491-8832 | 491-8826 | 491-8810 | - | 491-8797 |
| | 0.5mm² | 491-9021 | 491-8999 | 491-8854 | 491-8898 | 491-9059 | 491-8977 | 491-8961 | 491-8955 | - | 491-8933 | 491-8927 | 491-8860 |

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# Ölflex Unscreened




**ÖLFLEX® Classic 100** is a highly flexible, PVC sheathed YY control cable with colour coded cores. With good chemical resistance, a space-saving installation can be achieved due to its small cable diameter.

**ÖLFLEX® Classic 110** is a VDE-registered, oil-resistant PVC sheathed control cable for a wide range of applications where a medium stress capability is required. Ideal as connecting cable for control systems and production lines.

**ÖLFLEX® Classic 110 Black** is PVC sheathed power and control cable. With good UV and weather resistance it can be used outdoors, including for direct burial. The cable consists of a green/yellow core with varying numbers of black, numbered cores.

All cables are oil-resistant and flame retardant according to IEC 60332-1-2.

- Reel length 50m

## ÖLFLEX® Classic 100

| Brand | CSA | 3 Core | 4 Core | 5 Core | 7 Core | 12 Core |
|---|---|---|---|---|---|---|
| LAPP GROUP | 0.5mm² | 727-1363 | 727-1372 | 727-1375 | 727-1379 | 727-1388 |
| | 0.75mm² | 727-1381 | 727-1394 | 727-1397 | 727-1391 | 727-1401 |
| | 1.0mm² | 727-1404 | - | 727-1417 | 727-1410 | 727-1414 |
| | 1.5mm² | 727-1423 | 727-1426 | 727-1420 | - | - |
| | 2.5mm² | 727-1436 | 727-1445 | 727-1448 | 727-1442 | - |

## Olflex Classic 110

| Brand | CSA | 3 Core | 4 Core | 5 Core | 7 Core | 8 Core | 12 Core | 18 Core | 25 Core |
|---|---|---|---|---|---|---|---|---|---|
| LAPP GROUP | 0.75mm² | 387-7128 | 387-6759 | 141-126 | 141-564 | - | 387-6844 | 445-4322 | 787-4035 |
| | 1.0mm² | - | 387-6765 | 141-362 | 141-148 | - | 141-160 | 787-4044 | 787-4047 |
| | 1.5mm² | 387-6816 | 387-6771 | 387-6793 | 387-6923 | 387-6743 | 387-6850 | 445-4338 | 787-4041 |
| | 2.5mm² | - | 387-6787 | 387-6800 | 387-6822 | - | - | - | - |

## Olflex Classic 110 Black

| Brand | CSA | 2 Core | 3 Core | 4 Core | 5 Core | 7 Core |
|---|---|---|---|---|---|---|
| LAPP GROUP | 0.75mm² | 144-951 | 144-967 | 145-689 | 145-695 | 145-702 |
| | 1.0mm² | 144-973 | 144-917 | 144-995 | 144-989 | 144-901 |
| | 1.5mm² | 144-923 | 145-724 | 145-162 | 145-178 | 144-894 |

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# Ölflex Screened




**ÖLFLEX® Classic 100 CY** is a flexible screened PVC sheathed cable with colour coded twisted cores. Offering EMC compliance with good chemical resistance, it is used for power and control applications.

**ÖLFLEX® Classic 100 SY** is a PVC sheathed power and control cable with steel wire braiding for mechanical protection. Offering good chemical resistance, it can be used in dry and damp/wet interior environments.

**ÖLFLEX® Classic 110 SY** is a steel-wire braided, PVC sheathed, flexible control cable with transparent outer sheath. Compliant to VDE 0295, part 5, it is ideal for use in a range of applications where high resistance to acids and alkalines is required.

**ÖLFLEX® Classic 115 CY** is a screened, PVC sheathed control cable with small outer diameter. It offers EMC compliance and good resistance to chemicals and oils.

All cables are oil-resistant and flame retardant according to IEC 60332-1-2.

- Reel length 50m

## ÖLFLEX® Classic 100 CY

| Brand | CSA | 3 Core | 4 Core |
|---|---|---|---|
| LAPP GROUP | 0.75mm² | 444-0200 | 444-0244 |
| | 1.0mm² | 444-0216 | 444-0250 |
| | 1.5mm² | 444-0222 | 444-0266 |
| | 2.5mm² | 444-0238 | 444-0272 |

## Ölflex Classic 100 SY

| Brand | CSA | 3 Core | 4 Core | 5 Core |
|---|---|---|---|---|
| LAPP GROUP | 0.75mm² | 444-0373 | 444-0424 | - |
| | 1.0mm² | 444-0389 | 444-0430 | - |
| | 1.5mm² | 444-0395 | 444-0446 | - |
| | 2.5mm² | 444-0418 | 444-0452 | 444-0503 |

## Ölflex Classic 110 SY

| Brand | CSA | 3 Core | 4 Core | 5 Core | 7 Core | 12 Core | 18 Core | 25 Core |
|---|---|---|---|---|---|---|---|---|
| LAPP GROUP | 0.75mm² | 141-154 | 141-182 | 141-205 | 141-198 | 141-227 | - | - |
| | 1.0mm² | - | 141-211 | 141-097 | 454-8809 | 454-8821 | 454-8843 | 454-8865 |
| | 1.5mm² | - | 141-104 | 141-110 | 454-8815 | 454-8837 | - | - |
| | 4.0mm² | 454-8792 | - | - | - | - | - | - |

## Ölflex Classic 115 CY

| Brand | CSA | 3 Core | 4 Core | 5 Core | 7 Core |
|---|---|---|---|---|---|
| LAPP GROUP | 0.75mm² | 444-0519 | 444-0553 | - | - |
| | 1.0mm² | 444-0525 | 444-0575 | - | - |
| | 1.5mm² | 444-0531 | 444-0581 | 444-0604 | 444-0632 |
| | 2.5mm² | 444-0547 | 444-0597 | 444-0610 | - |

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# Mains Power

A range of power cables designed for a variety of applications including household appliances, tools and fixed installations. Supplied with PVC, rubber or CPE sheath, our single and multi-core cables are part of the HAR harmonised reference system, CE marked and RoHS compliant. Cables are manufactured to ISO9001 and selected products offer BASEC approval.

Our cables also conform to a range of other standards.




- PVC sheath
- Voltage Rating: 300V
- Stranded copper conductor
- Reel Length: 100m

## H03VV-F BASEC

| Brand | Sheath Colour | CSA | 2 Core | 3 Core | Min. Temp (°C) | Max. Temp (°C) |
|---|---|---|---|---|---|---|
| RS PRO | Black | 0.5mm² | 491-841 | 491-857 | -15 | +70 |
| | Black | 0.75mm² | 491-908 | 491-891 | -15 | +70 |
| | Grey | 0.5mm² | 491-863 | 491-847 | -15 | +70 |
| | White | 0.5mm² | 491-853 | 491-869 | -15 | +70 |
| | White | 0.75mm² | 491-875 | 491-885 | -15 | +70 |

| STANDARDS |
|---|
| BASEC |
| CENELEC HD21.5 |
| HAR |

## H03VV-F HARMONISED

| Brand | Sheath Colour | CSA | 2 Core | 3 Core | Min. Temp (°C) | Max. Temp (°C) |
|---|---|---|---|---|---|---|
| RS PRO | Black | 0.5mm² | 775-6062 | 775-6075 | -5 | +70 |
| | Black | 0.75mm² | 775-5845 | 775-5851 | -5 | +70 |
| | Grey | 0.5mm² | 775-5833 | 775-5849 | -5 | +70 |
| | White | 0.5mm² | 775-6069 | 775-6066 | -5 | +70 |
| | White | 0.75mm² | 775-5842 | 775-5858 | -5 | +70 |

| STANDARDS |
|---|
| HAR |
| IEC 60227-5 |
| IEC 60228 Class 5 |
| TS 9760 HD 21.5.S3 |
| VDE 0281-5 |


Heatshrink Sleeving

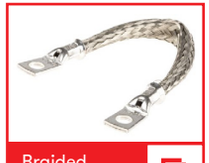

Cable Ties


Cable Marking Kits


Nylon Cable Glands


Cable Covers & Caps


Cable Sleeves


Braided Earth Leads


Circular Connectors

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# H05VV-F, 318×Y BASEC

- PVC sheath
- Stranded copper conductor
- Reel Length: 100m

| Brand | Sheath Colour | CSA | 2 Core | 3 Core | 4 Core | 5 Core | Min. Temp (°C) | Max. Temp (°C) |
|---|---|---|---|---|---|---|---|---|
| RS PRO | Black | 0.75mm² | 491-926 | 491-835 | 491-904 | 492-024 | -15 | +70 |
| | Black | 1mm² | 492-014 | 491-881 | 491-942 | 492-020 | -15 | +70 |
| | Black | 1.25mm² | - | 492-002 | - | - | -15 | +70 |
| | Black | 1.5mm² | 491-932 | 491-998 | 491-976 | 491-982 | -15 | +70 |
| | Black | 2.5mm² | - | 491-954 | 492-036 | - | -15 | +70 |
| | Black | 4mm² | - | 491-986 | - | - | -15 | +70 |
| | Grey | 0.75mm² | 492-790 | 491-784 | - | - | -15 | +70 |
| | Grey | 1mm² | 492-052 | 491-813 | - | - | -15 | +70 |
| | Grey | 1.25mm² | - | 491-970 | - | - | -15 | +70 |
| | Grey | 1.5mm² | 492-030 | - | - | - | -15 | +70 |
| | Orange | 0.75mm² | 491-807 | 491-831 | - | - | -15 | +70 |
| | Orange | 1mm² | 491-964 | 491-796 | - | - | -15 | +70 |
| | Orange | 1.25mm² | - | 492-018 | - | - | -15 | +70 |
| | Orange | 1.5mm² | 492-042 | 491-958 | - | - | -15 | +70 |
| | Orange | 2.5mm² | 491-920 | 491-914 | - | - | -15 | +70 |
| | Orange | 4mm² | - | 491-910 | - | - | -15 | +70 |
| | White | 0.75mm² | 491-803 | 491-780 | - | - | -15 | +70 |
| | White | 1mm² | 491-960 | 491-897 | - | - | -15 | +70 |
| | White | 1.25mm² | - | 492-008 | - | - | -15 | +70 |
| | White | 1.5mm² | 492-046 | 491-992 | - | - | -15 | +70 |
| | White | 2.5mm² | - | 491-948 | - | - | -15 | +70 |

| STANDARDS |
|---|
| BASEC |
| CENELEC HD21.5 |
| HAR |

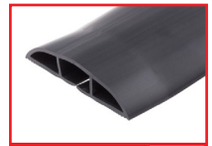


Heatshrink Sleeving


Cable Ties


Cable Marking Kits


Nylon Cable Glands


Cable Covers & Caps


Cable Sleeves


Braided Earth Leads


Circular Connectors

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## H05VV-F, 318×Y HARMONISED

| Brand | Sheath Colour | CSA | 2 Core | 3 Core | 4 Core | 5 Core | Min. Temp (°C) | Max. Temp (°C) |
|---|---|---|---|---|---|---|---|---|
| RS PRO | Black | 0.75mm² | 775-6088 | 775-6101 | 775-6148 | 775-6167 | -5 | +70 |
| | Black | 1mm² | 775-6090 | 775-6113 | 775-6145 | 775-6179 | -5 | +70 |
| | Black | 1.25mm² | - | 775-6126 | - | - | -5 | +70 |
| | Black | 1.5mm² | 775-6104 | 775-6123 | 775-6157 | 775-6182 | -5 | +70 |
| | Black | 2.5mm² | 775-5870 | 775-6135 | 775-6160 | - | -5 | +70 |
| | Black | 4mm² | - | 775-5899 | - | - | -5 | +70 |
| | Grey | 0.75mm² | 775-5864 | 775-5886 | - | - | -5 | +70 |
| | Grey | 1mm² | 775-5867 | 775-5889 | - | - | -5 | +70 |
| | Grey | 1.25mm² | - | 775-5883 | - | - | -5 | +70 |
| | Grey | 1.5mm² | 775-5861 | 775-5892 | - | - | -5 | +70 |
| | Grey | 2.5mm² | 775-5877 | 775-5895 | - | - | -5 | +70 |
| | Grey | 4mm² | - | 775-5902 | - | - | -5 | +70 |
| | White | 0.75mm² | 775-6097 | 775-6110 | 775-6141 | 775-6176 | -5 | +70 |
| | White | 1mm² | 775-6094 | 775-6117 | 775-6154 | 775-6173 | -5 | +70 |
| | White | 1.25mm² | - | 775-6129 | - | - | -5 | +70 |
| | White | 1.5mm² | 775-6107 | 775-6132 | 775-6151 | 775-6185 | -5 | +70 |
| | White | 2.5mm² | 775-5873 | 775-6139 | 775-6163 | - | -5 | +70 |
| | White | 4mm² | - | 775-5909 | - | - | -5 | +70 |

| STANDARDS |
|---|
| HAR |
| IEC 60227-5 |
| IEC 60228 Class 5 |
| TS 9760 HD 21.5.S3 |
| VDE 0281-5 |



Heatshrink Sleeving

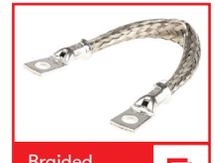

Cable Ties


Cable Marking Kits


Nylon Cable Glands


Cable Covers & Caps


Cable Sleeves


Braided Earth Leads


Circular Connectors

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## H07RNV-F

- PVC sheath and stranded copper conductor
- Voltage Rating: 450V, 750V
- Temperature range: -25°C to +60°C
- Reel Length: 100m

| Brand | Sheath Colour | Sheath Material | CSA | 2 Core | 3 Core | 4 Core | 5 Core |
|---|---|---|---|---|---|---|---|
| RS PRO | Black | CPE | 1mm² | 773-9020 | - | - | - |
| | Black | CPE | 1.5mm² | 773-9039 | 773-9045 | 773-9061 | 773-9086 |
| | Black | CPE | 2.5mm² | 773-9036 | 773-9049 | 773-9070 | 773-9089 |
| | Black | CPE | 4mm² | - | 773-9051 | 773-9077 | 773-9083 |
| | Black | CPE | 6mm² | - | 773-9055 | - | 773-9092 |
| LAPP GROUP | Black | Rubber | 1mm² | 817-8987 | - | - | - |
| | Black | Rubber | 1.5mm² | 817-8984 | 817-9003 | 817-9028 | 817-9047 |
| | Black | Rubber | 2.5mm² | 817-8996 | 817-9000 | 817-9031 | 817-9040 |
| | Black | Rubber | 4mm² | - | 817-9012 | 817-9038 | 817-9044 |
| | Black | Rubber | 6mm² | - | 817-9016 | - | 817-9053 |

| STANDARDS |
|---|
| HAR |
| VDE 0285-525-2-21 |

| STANDARDS |
|---|
| HAR |
| IEC 60332-1 |


Heatshrink Sleeving


Cable Ties


Cable Marking Kits


Nylon Cable Glands


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Braided Earth Leads


Circular Connectors

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# Mains Power - SWA



Steel wire armoured cables are PVC sheathed with a galvanised steel wire armouring surrounding insulated power cores. Frequently used for underground cabling, they are suitable for indoor, outdoor and buried installations.

BASEC approved ranges are available. All cables are RoHS compliant and manufactured to ISO9001.

- Reel length 50m

| Brand | Sheath Colour | CSA | 2 Core | 3 Core | 4 Core | 5 Core |
|---|---|---|---|---|---|---|
| RS PRO | Black | 1.5mm² | 196-4667 | 196-4720 | 196-4699 | - |
| | Black | 2.5mm² | 196-4662 | 196-4715 | 196-4711 | 196-4697 |
| | Black | 4mm² | - | 196-4707 | 196-4694 | 196-4700 |
| | Black | 6mm² | - | 196-4708 | 196-4688 | - |
| | Black | 10mm² | - | 196-4690 | 196-4706 | - |
| | Black | 16mm² | - | - | 196-4671 | - |

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# Conduit

A rigid standard wiring cable for use in closed systems, light fittings, switch and control gear. Installed within embedded conduit, it is suited to indoor appliance wiring and supplied with PVC or low halogen LSZH sheath. For use under medium mechanical stress.

BASEC approved ranges are available and all of the range is RoHS compliant and manufactured to ISO9001.

- Reel length 100m



## 6491X BASEC

| Brand | Core Strands | Black | Blue | Brown | Grey | Green Yellow |
|---|---|---|---|---|---|---|
| RS PRO | 1.5mm² | 836-0852 | 836-0861 | 836-0864 | 836-0877 | 836-0868 |
| | 2.5mm² | 836-0870 | 836-0874 | 836-0883 | 836-0880 | 836-0886 |
| | 4mm² | 836-0899 | 836-0892 | 836-0896 | - | 836-0906 |
| | 6mm² | 836-0903 | 836-0912 | 836-0915 | 836-0928 | 836-0919 |
| | 10mm² | 836-0921 | 836-0925 | 836-0934 | 836-0931 | 836-0937 |
| | 16mm² | 836-0940 | 836-0943 | 185-3915 | 185-3917 | 836-0956 |
| | 25mm² | 836-0953 | 185-3920 | 185-3922 | 185-3925 | 836-0969 |
| PRYSMIAN | 1.5mm² | 381-012 | 381-028 | 381-034 | 494-5575 | 381-056 |
| | 2.5mm² | 381-078 | 381-084 | 618-9812 | 494-5597 | 381-113 |
| | 4mm² | 381-135 | 381-141 | 381-157 | 494-5604 | 381-179 |
| | 6mm² | 381-191 | 381-208 | 618-9834 | 494-5632 | 381-236 |
| | 10mm² | - | 381-264 | 619-0266 | 494-5654 | 381-292 |
| | 16mm² | 381-315 | 494-5676 | 494-5682 | 494-5660 | 381-321 |
| | 25mm² | - | - | - | - | 381-359 |

| STANDARDS |
|---|
| BS EN 50525-2-31 |
| EN 50363-3 |
| IEC 60228 |
| BASEC |

## 6491B LZSH

| Brand | Core Strands | Black | Blue | Brown | Grey | Green Yellow |
|---|---|---|---|---|---|---|
| PRYSMIAN | 1.5mm² | 363-222 | 363-238 | 494-5733 | 494-5727 | 363-250 |
| | 2.5mm² | 363-272 | 363-288 | 494-5755 | 494-5749 | 363-301 |
| | 4mm² | 363-323 | 363-339 | 494-5777 | 494-5761 | 363-351 |

| STANDARDS |
|---|
| BS EN 50525-3-41 |

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# Lighting & Electrical

A range of multicore, indoor wiring cable suitable for a variety of applications. The range consists of low smoke, flame retardant LSZH sheathed cable for areas where smoke emission presents a threat and PVC sheathed types for general electrical wiring.

PVC cable is approved to BASEC and is RoHS compliant. All are manufactured to ISO9001.



- 500V rating
- Reel length 100m

## 3182B LSZH White Sheath

| Brand | CSA | 2 Core | 3 Core | 4 Core | 5 Core |
|---|---|---|---|---|---|
| RS PRO | 0.75mm² | 836-0713 | 836-0732 | 836-0741 | 836-0751 |
| | 1mm² | 836-0717 | 836-0735 | 836-0745 | - |
| | 1.5mm² | 836-0726 | 836-0739 | 836-0754 | 836-0760 |
| | 2.5mm² | 836-0729 | 836-0748 | 836-0757 | - |
| | 4mm² | 836-0723 | - | - | - |

| STANDARDS |
|---|
| IEC 60228 |
| BS EN 50525-3-11 |
| EN |
| EN 50363-7 |
| BS EN 50363-8 |

## 624XY PVC Twin & Earth Grey Sheath

| Brand | CSA | 2 Core | 3 Core |
|---|---|---|---|
| RS PRO | 1mm² | 468-1899 | 493-9788 |
| | 1.5mm² | 468-1906 | - |
| | 2.5mm² | 468-1912 | - |
| | 4mm² | 468-1928 | - |
| | 6mm² | 468-1934 | - |

| STANDARDS |
|---|
| BASEC |
| BS EN 50265-2-1 |
| EN |
| TS |


Heatshrink Sleeving


Cable Ties


Cable Marking Kits


Nylon Cable Glands


Cable Covers & Caps


Cable Sleeves


Braided Earth Leads


Circular Connectors

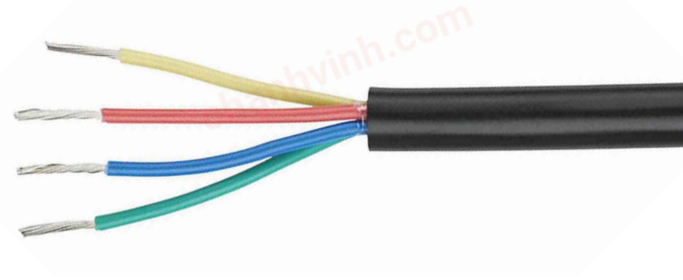
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# Multicore

A range of high performance, screened and unscreened PVC sheathed cables for a number of applications including industrial process control and computer peripheral wiring. Screening and braiding helps to reduce external interference.

UL, CSA and DEF STAN ranges are available where their installation demands. All of the range is RoHS compliant and manufactured to ISO9001.



## Reel length 100m*

| Brand | Screened / Unscreened | CSA | 2 Core | 3 Core | 4 Core | 6 Core | 8 Core | 12 Core | 18 Core | 20 Core | 36 Core | Voltage Rating |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RS PRO | Unscreened | 0.22mm² | 202-4856 | 202-4860 | 202-4861 | 202-4863 | 202-4865 | 202-4852 | - | 202-4854 | 202-4858 | 440V |
| | Unscreened | 0.5mm² | 201-2209 | 201-2211 | 201-2214 | 201-2216 | - | 201-2218 | 201-2220 | - | - | 440V |
| | Screened | 0.22mm² | - | - | 202-4845 | 202-4848 | 202-4850 | 202-4839 | - | 202-4841 | 202-4843 | 300V |
| | Screened | 0.5mm² | - | - | 201-2223 | 201-2226 | - | 201-2228 (50m) | 201-2232 (50m) | - | - | 300V |

| STANDARDS |
|---|
| IEC 60332-1 |
| DEF STAN 61.12 parts 4 and 5 |
| UL |

## Reel length 50m*

| Brand | Screened / Unscreened | CSA | 2 Core | 3 Core | 4 Core | 6 Core | 8 Core | 10 Core | 15 Core | 20 Core | Voltage Rating |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AlphaWire | Unscreened | 0.09mm² | 740-4474 | 740-4478 | 740-4487 | - | - | - | - | - | 300V |
| | Unscreened | 0.14mm² | 740-4480 | 740-4484 | 740-4493 | - | - | - | - | - | 300V |
| | Unscreened | 0.23mm² | 740-4496 | 740-4490 | 740-4500 | 740-4503 | 740-4507 | 740-4516 | 740-4519 | - | 300V |
| | Unscreened | 0.35mm² | - | 740-4522 | 740-4525 | - | - | - | - | - | 300V |
| | Unscreened | 0.56mm² | 740-4529 | - | - | - | - | - | - | - | 300V |
| | Screened | 0.09mm² | 740-4531 | 740-4535 | 740-4544 | - | - | - | - | - | 300V |
| | Screened | 0.14mm² | 740-4547 | 740-4541 | 740-4550 | - | - | - | - | - | 300V |
| | Screened | 0.23mm² | 740-4553 | 740-4557 | 740-4566 | 740-4569 | 740-4563 | 740-4572 | 740-4575 | 175-7350 (100m) | 300V |
| | Screened | 0.35mm² | 740-4579 | 740-4588 | 740-4581 | 740-4585 | - | - | - | - | 300V |
| | Screened | 0.56mm² | 740-4594 | 740-4597 | 740-4591 | - | - | - | - | - | 300V |

| STANDARDS |
|---|
| IEC 60332-1&2 |
| CSA CMG FT-4 |
| UL AWM 2464 VW-1 |

* except where stated


Heatshrink Sleeving

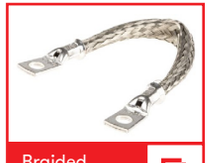

Cable Ties


Cable Marking Kits


Nylon Cable Glands


Cable Covers & Caps


Cable Sleeves


Braided Earth Leads


Circular Connectors

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## WHAT ARE CHAINFLEX® CABLES?

chainflex® cables are designed for moving applications in energy chains or for robot applications, fail-safe with 36-month guarantee.

chainflex® cables meet the requirements for EMC safety as well as other standards and guidelines such as UL, CSA, VDE, EAC, CTP, Interbus and Profibus. Different jacket materials are available. The product range includes everything from control cables, servo cables, motor cables and robot cables to bus cables, data cables, encoder cables and fibre optic cables. chainflex® cables for energy chains work flawlessly over long periods of time even with heavy duty cycles, high speeds and accelerations as well as extreme ambient conditions.

## TESTED

In the igus test laboratory, an average of 650 series of tests at a time have been carried out for the past 25 years under the most difficult operating conditions. These results are continuously incorporated into product development and the online service life calculator. This allows igus to give customers total confidence and is also the only manufacturer to offer a guarantee of 36 months or over 10 million strokes.

## SPECIAL CABLES FOR E-CHAINS®

As an expert in energy chain systems, igus® supplies all components from a single source - including the cables. The design principle of the chainflex® cables helps to avoid problems such as “corkscrews” and conductor breaks in cables in moving applications, all this prevents machine downtime. In contrast to other “chain-friendly” cables with braiding in layers, igus® manufactures chainflex® cables according to the principle of braiding in bundles. The material and manufacture of shield and jacket of chainflex® cables are also specifically designed for use in energy chain applications. Since 1989, this has proven itself millions of times in practice around the world.

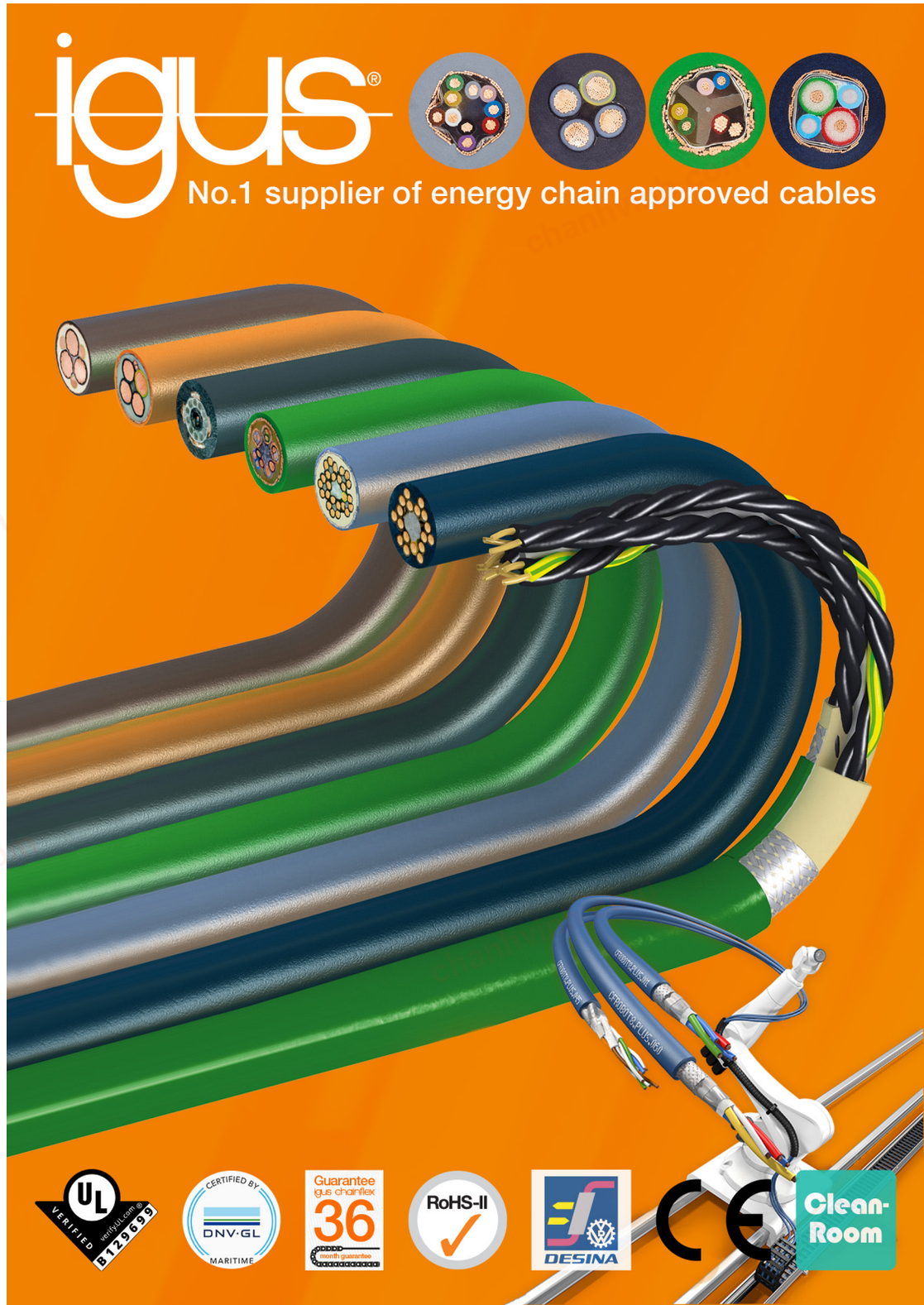
**No contradiction: good cables cost less**

Fast availability throughout the world is a significant purchase factor. The chainflex cable range is available from stock. This saves time, money, storage capacity and applies to each one cable type which can be ordered without a minimum quantity.



igus®

No.1 supplier of energy chain approved cables



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# Control Cables

Small bend radii, ideal for space saving installation. Patented core bundled design to ensure long lasting lifetime in dynamic applications. Torsion resistant for reliable use in twisting applications (Unscreened).

300/500V rated for use in control cable applications. Wide temperature ranges from -50°C to +80°C (PUR) depending on application type.

Use worldwide with global norms, including; CE, UL/CSA, CEI, CTP, EAC. Guaranteed service life for use in echains, minimise risk of unplanned downtime.



- All part numbers are for 50m drums. 25m lengths are also available.

## Unscreened

| Brand | Unscreened Configuration | Unscreened | |
|---|---|---|---|
| | | PVC | PUR |
| igus | 3×0.25 | 210-0319 | - |
| | 4×0.25 | 210-0320 | 210-0454 |
| | 6×0.25 | 210-0321 | - |
| | 7×0.25 | 210-0322 | - |
| | 12×0.25 | 210-0323 | - |
| | 20×0.25 | 210-0324 | - |
| | 25×0.25 | 210-0325 | - |
| | 2×0.34 | 185-4801 | - |
| | 5×0.34 | 185-4802 | - |
| | 2×0.5 | 185-4803 | - |
| | 3G0.5 | 185-4804 | - |
| | 4G0.5 | 185-4805 | 210-0456 |
| | 5G0.5 | 185-4806 | 210-0457 |
| | 7G0.5 | 185-4807 | - |
| | 12G0.5 | 185-4809 | 210-0458 |
| | 18G0.5 | 185-4810 | 210-0459 |
| | 25G0.5 | 210-0329 | 210-0460 |
| | 30G0.5 | - | 210-0462 |
| | 2×0.75 | 210-0330 | - |
| | 3G0.75 | 185-4811 | 210-0463 |
| | 4G0.75 | 185-4812 | 210-0464 |
| | 5G0.75 | 185-4813 | 210-0465 |
| | 7G0.75 | 210-0334 | 210-0466 |
| | 12G0.75 | 185-4815 | - |
| | 18G0.75 | 210-0335 | - |
| | 20G0.75 | - | 210-0467 |

| Brand | Unscreened Configuration | Unscreened | |
|---|---|---|---|
| | | PVC | PUR |
| igus | 25G0.75 | 210-0336 | - |
| | 36G0.75 | 210-0337 | 210-0468 |
| | 2×1.0 | 185-4818 | 210-0469 |
| | 3G1.0 | 185-4819 | - |
| | 4G1.0 | 210-0339 | 210-0470 |
| | 5G1.0 | 210-0340 | - |
| | 7G1.0 | 210-0341 | - |
| | 12G1.0 | 210-0342 | - |
| | 18G1.0 | 210-0343 | - |
| | 25G1.0 | 210-0344 | - |
| | 2×1.5 | 185-4820 | - |
| | 3G1.5 | 185-4821 | 210-0471 |
| | 4G1.5 | 210-0347 | - |
| | 5G1.5 | 210-0349 | - |
| | 7G1.5 | 210-0351 | 210-0472 |
| | 12G1.5 | 185-4822 | 210-0473 |
| | 18G1.5 | 210-0352 | - |
| | 25G1.5 | 210-0353 | - |
| | 3G2.5 | 210-0355 | 210-0474 |
| | 4G2.5 | 210-0356 | 210-0475 |
| | 5G2.5 | - | 210-0476 |
| | 7G2.5 | 210-0357 | - |
| | 12G2.5 | 210-0358 | - |
| | 3G4.0 | 210-0359 | - |
| | 4G6.0 | 210-0361 | - |

## Screened

| Brand | Screened Configuration | Screened | |
|---|---|---|---|
| | | PVC | PUR |
| igus | (12×0.25)C | 210-0362 | - |
| | (5×0.34)C | 185-4829 | - |
| | (3G0.5)C | 185-4830 | - |
| | (4G0.5)C | - | 210-0478 |
| | (5G0.5)C | - | 210-0479 |
| | (7G0.5)C | - | 210-0480 |
| | (9G0.5)C | - | 210-0481 |
| | (12G0.5)C | - | 210-0482 |
| | (18G0.5)C | 210-0364 | - |
| | (36G0.5)C | 210-0365 | - |
| | (3G0.75)C | 210-0366 | 210-0484 |
| | (4G0.75)C | 185-4832 | 210-0485 |
| | (5G0.75)C | 210-0369 | - |
| | (7G0.75)C | 210-0371 | 210-0486 |
| | (12G0.75)C | 210-0372 | - |
| | (2×1.0)C | 210-0373 | - |
| | (3G1.0)C | 210-0375 | - |
| | (4G1.0)C | 210-0378 | - |
| | (7G1.0)C | 210-0380 | - |
| | (12G1.0)C | 210-0381 | - |
| | (18G1.0)C | 210-0383 | - |
| | (3G1.5)C | 210-0385 | - |
| | (4G1.5)C | 210-0387 | 210-0487 |
| | (5G1.5)C | 210-0389 | 210-0488 |
| | (7G1.5)C | 210-0391 | - |

| Brand | Screened Configuration | Screened | |
|---|---|---|---|
| | | PVC | PUR |
| igus | (12G1.5)C | - | 210-0489 |
| | (18G1.5)C | - | 210-0490 |
| | (25G1.5)C | 210-0392 | 210-0491 |
| | (3G2.5)C | 210-0393 | - |
| | (4G2.5)C | 210-0394 | - |

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## Motor Cables

Small bend radii, ideal for space saving installation. Patented core bundled design to ensure long lasting lifetime in dynamic applications. Torsion resistant for reliable use in twisting applications (Unscreened).

600/1000V rated for use in control cable applications. Wide temperature ranges from -15°C to +70°C depending on application type.

Use worldwide with global norms, including; CE, UL/CSA, CEI, CTP, EAC. Guaranteed service life for use in echains, minimise risk of unplanned downtime.

- All part numbers are for 50m drums. 25m lengths are also available.




### Unscreened

| Brand | Unscreened Configuration | Unscreened PVC |
|---|---|---|
| igus® | 4G1.5 | 210-0577 |
| | 4G2.5 | 210-0581 |
| | 5G2.5 | 210-0582 |

### Screened

| Brand | Screened Configuration | Screened PVC |
|---|---|---|
| igus® | (4G1.5)C | 210-0586 |
| | (4G2.5)C | 210-0588 |
| | (4G4.0)C | 210-0591 |
| | (4G6.0)C | 210-0414 |

## BUS Cables

Small bend radii, ideal for space saving installation. Patented core bundled design to ensure long lasting lifetime in dynamic applications.

Low angled braided screen optimised for use in continuous flexing applications. Power over Ethernet (POE) on specific product lines. Wide temperature ranges from -55°C to +100°C (TPE) depending on application type.

Use worldwide with global norms, including; CE, UL/CSA, CEI, CTP, EAC. Guaranteed service life for use in echains, minimise risk of unplanned downtime.

- All part numbers are for 50m drums. 25m lengths are also available.




| Brand | Bus Protocol | Configuration | UL | | | Non UL |
|---|---|---|---|---|---|---|
| | | | PVC | PUR | TPE | TPE (low bend) |
| igus® | CAN-Bus | (4×0.25)C | 210-0525 | 210-0516 | 210-0497 | 210-0507 |
| | CAN-Bus | (2×0.25)C | 210-0526 | 210-0517 | 210-0498 | 210-0508 |
| | CAN-Bus | (4×0.5)C | 210-0527 | 210-0518 | 210-0499 | 210-0509 |
| | CAT5 | (4×0.25)C | 210-0529 | 210-0519 | 210-0500 | 210-0510 |
| | CAT5e | (4×(2×0.15))C | 210-0530 | 210-0520 | 210-0501 | 210-0511 |
| | CAT6 | (4×(2×0.15))C | 210-0531 | 210-0521 | 210-0502 | 210-0513 |
| | CAT6A | (4×(2×0.15)C)C | 210-0532 | 210-0522 | 210-0503 | - |
| | PROFINET | (4×0.38)C | 210-0533 | 210-0523 | 210-0504 | 210-0514 |
| | PROFIBUS | (2×0.25)C | 210-0524 | 210-0515 | 210-0496 | 210-0505 |

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# Data Cables

Small bend radii, ideal for space saving installation. Patented core bundled design to ensure long lasting lifetime in dynamic applications.

Low angled braided screen optimised for use in continuous flexing applications. 300/3000V rated for use in control cable applications. Wide temperature ranges from -50°C to +80°C (PUR) depending on application type.

Use worldwide with global norms, including; CE, UL/CSA, CEI, CTP, EAC. Guaranteed service life for use in echains, minimise risk of unplanned downtime.

- All part numbers are for 50m drums. 25m lengths are also available.



## Standard Configuration

| Brand | Standard Configuration | Standard | |
|---|---|---|---|
| | | PVC | PUR |
| igus | (3×0.14)C | 210-0550 | - |
| | (4×0.14)C | 210-0551 | 210-0567 |
| | (5×0.14)C | 210-0552 | - |
| | (7×0.14)C | 210-0553 | - |
| | (14×0.14)C | 210-0554 | 210-0568 |
| | (18×0.14)C | 210-0555 | 210-0569 |
| | (3×0.25)C | 210-0556 | - |
| | (4×0.25)C | 210-0557 | 210-0570 |
| | (5×0.25)C | - | 210-0571 |
| | (7×0.25)C | 210-0558 | - |
| | (8×0.25)C | 210-0559 | - |
| | (14×0.25)C | 210-0560 | 210-0572 |
| | (18×0.25)C | 210-0561 | - |
| | (24×0.25)C | 210-0563 | - |
| | (4×0.34)C | 210-0564 | 210-0573 |
| | (5×0.34)C | 210-0565 | - |
| | (7×0.34)C | - | 210-0574 |
| | (14×0.34)C | - | 210-0575 |
| | (18×0.34)C | 210-0566 | - |

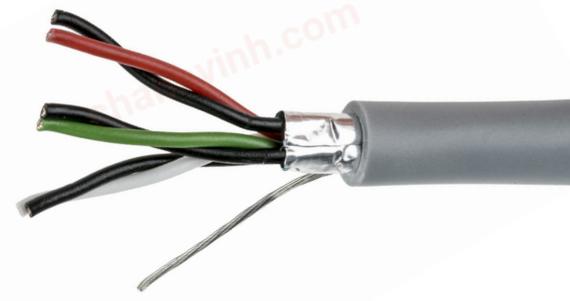
## TP Configuration

| Brand | TP Configuration | Twisted Pair | |
|---|---|---|---|
| | | PVC | PUR |
| igus | (2×0.25)C | 210-0395 | 210-0535 |
| | (2×(2×0.25))C | 210-0396 | 210-0536 |
| | (3×(2×0.25))C | 210-0397 | 210-0537 |
| | (4×(2×0.25))C | 210-0399 | 210-0538 |
| | (5×(2×0.25))C | - | 210-0539 |
| | (6×(2×0.25))C | 210-0400 | 210-0541 |
| | (8×(2×0.25))C | 210-0401 | 210-0542 |
| | (14×(2×0.25))C | 210-0402 | 210-0543 |
| | (3×(2×0.34))C | 210-0403 | - |
| | (2×0.5)C | 210-0404 | 210-0544 |
| | (2×(2×0.5))C | 210-0406 | 210-0545 |
| | (3×(2×0.5))C | - | 210-0546 |
| | (4×(2×0.5))C | 210-0407 | 210-0547 |
| | (5×(2×0.5))C | 210-0408 | 210-0548 |
| | (6×(2×0.5))C | 210-0409 | 210-0549 |
| | (14×(2×0.5))C | 210-0410 | - |

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# Multipair / Twisted Pair



Multipair cable offers high performance wiring for a number of applications including industrial process control, computer peripherals and medical electronics. Screening and braiding offers options to reduce interference where this is required.

All offer UL and CSA approval, are RoHS compliant and manufactured to ISO9001.

- Sheath Colour: Grey
- Voltage Rating: 300V
- Reel Length: 100m
- Foil screened

| Brand | Sheath Material | 1 Pair | 2 Pair | 3 Pair | 4 Pair | 5 Pair | 6 Pair | 9 Pair | 10 Pair | 19 Pair |
|---|---|---|---|---|---|---|---|---|---|---|
| RS PRO | PVC | 811-7373 | 811-7377 | 811-7386 | 811-7389 | 811-7383 | 812-4707 | 811-7395 | 811-7399 | 811-7402 |
| | LSZH | 811-7406 | 811-7415 | 811-7418 | 811-7412 | - | - | - | - | - |



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Cable Ties


Cable Marking Kits


Nylon Cable Glands


Cable Covers & Caps


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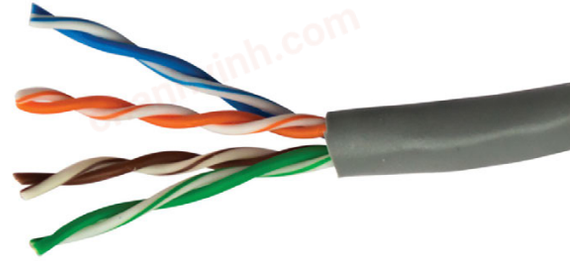


# LAN

LAN cables, otherwise known as Cat or ethernet, are twisted pair cables used for carrying signals in structured computer networking systems.

Used also for telephone and video applications, the twisting of the pairs reduces crosstalk between conductors, as does the level of shielding and braiding.

Different applications are catered for by the various sheath materials, including low smoke types.



| Brand | RS Stock Number | Type | Shield Type | Sheath Material | Conductor Strand Type | Standards | Sheath Colour | Reel Length |
|---|---|---|---|---|---|---|---|---|
| RS PRO | 556-865 | Cat5e | F/UTP | PVC | Stranded | A G | Grey | 305m |
| | 557-212 | Cat5e | F/UTP | PVC | Solid | A G | Grey | 305m |
| | 557-228 | Cat5e | F/UTP | LSZH | Stranded | A G | Purple | 305m |
| | 556-869 | Cat5e | F/UTP | LSZH | Solid | A G | Purple | 305m |
| | 557-464 | Cat5e | U/UTP | PVC | Stranded | A G | Grey | 305m |
| | 557-470 | Cat5e | U/UTP | PVC | Solid | A G | Grey | 305m |
| | 557-159 | Cat5e | U/UTP | LSZH | Stranded | A G | Purple | 305m |
| | 557-193 | Cat5e | U/UTP | LSZH | Solid | A G | Purple | 305m |
| | 556-392 | Cat6 | F/UTP | PVC | Stranded | B C D E G | Grey | 305m |
| | 556-875 | Cat6 | F/UTP | LSZH | Stranded | B C D E G | Purple | 305m |
| | 556-382 | Cat6 | F/UTP | LSZH | Solid | B C D E G | Purple | 305m |
| | 556-308 | Cat6 | U/UTP | PVC | Stranded | B C D E G | Grey | 305m |
| | 556-304 | Cat6 | U/UTP | LSZH | Stranded | B C D E G | Purple | 305m |
| | 557-238 | Cat6 | U/UTP | PVC | Solid | B C D E G | Grey | 305m |
| | 557-121 | Cat6 | U/UTP | LSZH | Solid | B C D E G | Purple | 305m |
| | 113-5902 | Cat6a | SF/FTP | PVC | Solid | E G J K L | Grey | 100m |
| | 113-5901 | Cat6a | U/FTP | PVC | Solid | E G J K L | Grey | 100m |
| | 842-7346 | Cat6a | F/FTP | LSZH | Solid | E G J K L | Grey | 100m |
| | 842-7333 | Cat6a | U/FTP | LSZH | Solid | E G J K L | Grey | 100m |
| | 842-7343 | Cat7 | S/FTP | LSZH | Solid | C D E G J K L | Purple | 100m |
| | 842-7352 | Cat7 | S/FTP | LSZH | Solid | C D E G J K L | Purple | 500m |
| | 842-7355 | Cat7a | S/FTP | LSZH | Solid | C D E G J K L | Grey | 100m |

| Key to Standards | |
|---|---|
| A | ANSI/EIA/TIA 568B.2 |
| B | ANSI/TIA 568-C.2 |
| C | EN 50173 |
| D | EN 50288 |
| E | IEC 61156-5 |
| G | ISO/IEC 11801-2 |
| I | TIA/EIA 568 |
| J | IEC 60332-1 |
| K | IEC 61034 |
| L | IEC 60754 |
| M | ISO/IEC 24702 |
| N | IEC 60811-2-1 |

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# LAN (Continued)

| Brand | RS Stock Number | Type | Shield Type | Sheath Material | Conductor Strand Type | Standards | Sheath Colour | Reel Length |
|---|---|---|---|---|---|---|---|---|
| BELDEN | 419-5477 | Cat5e | F/UTP | PVC | Solid | C D G | Grey | 100m |
| | 419-5483 | Cat5e | F/UTP | LSZH | Solid | C D G I | Grey | 100m |
| | 419-5398 | Cat5e | SF/UTP | LSZH | Solid | C D G | Grey | 100m |
| | 724-8820 | Cat5e | SF/UTP | PVC | Solid | A C G I | Black | 305m |
| | 724-8836 | Cat5e | SF/UTP | PVC | Stranded | C G I L M | Black | 305m |
| | 724-8830 | Cat5e | SF/UTP | FRNC | Stranded | G I L M | Black | 305m |
| | 724-8842 | Cat5e | SF/UTP | PUR | Stranded | C G I L M | Black | 305m |
| | 419-5455 | Cat5e | U/UTP | PVC | Solid | C G I J | Grey | 100m |
| | 162-3178 | Cat6 | U/UTP | PVC | Solid | B C G J | Blue | 305m |
| | 162-3176 | Cat6 | U/UTP | LSZH | Solid | B C G J | Blue | 305m |
| | 368-4471 | Cat6 | U/UTP | PVC | Solid | A C G | Grey | 305m |
| | 368-4487 | Cat6 | U/UTP | LSZH | Solid | A C G | Blue | 305m |
| | 162-3166 | Cat6a | S/FTP | PVC | Stranded | B C G J | Black | 305m |
| | 162-3173 | Cat6a | U/UTP | LSZH | Solid | B C G J | Blue | 500m |
| | 175-6560 | Cat6a | U/FTP | LSZH | Solid | B C G J | Blue | 500m |
| | 175-6549 | Cat6a | F/UTP | LSZH | Solid | B C G J | Blue | 500m |
| | 162-3174 | Cat6a | F/FTP | LSZH | Solid | B C G J | Grey | 500m |
| | 175-6557 | Cat6a | S/FTP | LSZH | Solid | B C G J | Blue | 500m |
| | 724-8852 | Cat7 | S/FTP | PUR | Solid | A C G J L N | Black | 305m |
| | 419-5411 | Cat7 | S/FTP | LSZH | Solid | B C G J | Grey | 500m |
| | 162-3179 | Cat7a | S/FTP | LSZH | Solid | B C G J | Grey | 500m |
| | 175-6545 | Cat7a | S/FTP | LSZH | Solid | B C G J | Grey | 500m |

| Key to Standards | |
|---|---|
| A | ANSI/EIA/TIA 568B.2 |
| B | ANSI/TIA 568-C.2 |
| C | EN 50173 |
| D | EN 50288 |
| E | IEC 61156-5 |
| G | ISO/IEC 11801-2 |
| I | TIA/EIA 568 |
| J | IEC 60332-1 |
| K | IEC 61034 |
| L | IEC 60754 |
| M | ISO/IEC 24702 |
| N | IEC 60811-2-1 |


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# Coaxial: RG / URM / Micro / Coax inc. Power / Twinax

Designed for a variety of communication applications for aerial to CCTV use, coaxial cable is capable of carrying signals over distance and avoiding interference.

Twin, micro and power options are available in a range of sheath materials including zero halogen LSZF.



| Brand | RS Stock Number | Coax Style | Coax type | Sheath Material | No. of Strands | Impedance | Capactiance | Sheath Colour | Reel Length |
|---|---|---|---|---|---|---|---|---|---|
| RS PRO | 665-5883 | RG | CT100 | PVC | 1 | 75Ω | 52.5 pF/m | Black | 100m |
| | 665-5899 | RG | RG179PE | LSZH | 1 | 75Ω | 54 pF/m | Black | 100m |
| | 913-5073 | Shotgun | RG6 | PVC | 2 | 75Ω | 48pf/m | Black | 100m |
| AlphaWire | 122-2315 | Micro | Micro Coax | PFA | 7 | 50Ω | 110.2pf/m | White | 100m |
| | 122-2316 | Micro | Micro Coax | PFA | 7 | 50Ω | 110.2pf/m | White | 100m |
| | 122-2314 | Micro | Micro Coax | PFA | 7 | 50Ω | 110.2pf/m | White | 100m |
| | 122-2319 | Micro | Micro Coax | PFA | 7 | 50Ω | 110.2pf/m | White | 100m |
| | 122-2317 | Micro | Micro Coax | PFA | 7 | 50Ω | 110.2pf/m | White | 100m |
| | 122-2320 | Micro | Micro Coax | PFA | 7 | 50Ω | 110.2pf/m | White | 100m |
| | 126-5107 | RG | RG174/U | PVC | 7 | 50Ω | 101.024 pF/m | Black | 304m |
| | 156-8024 | RG | RG178B/U | EFF | 1 | 50Ω | 93.1 pF/m | Transparent | 30m |
| | 176-9750 | RG | RG196A/U | PTFE | 7 | 50Ω | 29.3 pf/ft | White | 30m |
| | 126-5696 | RG | RG213/U | PVC | 7 | 50Ω | 101.024 pF/m | Black | 30m |
| | 168-3123 | RG | RG59B/U | PVC | 1 | 75Ω | 67.24 pF/m | Black | 304m |
| | 168-2962 | RG | RG62A/U | PVC | 1 | 93Ω | 43.3 pF/m | Black | 304m |



Heatshrink Sleeving


Cable Ties


Cable Marking Kits


Nylon Cable Glands


Cable Covers & Caps


Cable Sleeves


Braided Earth Leads


Circular Connectors

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# Coaxial: RG / URM / Micro / Coax inc. Power / Twinax (continued)

| Brand | RS Stock Number | Coax Style | Coax type | Sheath Material | No. of Strands | Impedance | Capactiance | Sheath Colour | Reel Length |
|---|---|---|---|---|---|---|---|---|---|
| BELDEN | 510-2139 | Coax with power | RG59 | FRNC | 1 (Power 7) | 75Ω | 54.3pf/m | Grey | 100m |
| | 521-8206 | RG | RG174/U | PVC | 7 | 50Ω | 101 pF/m | Black | 50m |
| | 521-7944 | RG | RG178PE | PVC | 7 | 50Ω | 104.9pf/m | Black | 100m |
| | 521-7966 | RG | RG179 | PVC | 7 | 75Ω | 64pf/m | Black | 100m |
| | 521-7972 | RG | RG213 | PVC | 7 | 50Ω | 101 pF/m | Black | 100m |
| | 521-8408 | RG | RG214/U | PVC | 7 | 50Ω | 101 pF/m | Black | 100m |
| | 521-7994 | RG | RG223 | PVC | 1 | 50Ω | 101 pF/m | Black | 100m |
| | 521-7900 | RG | RG58 | PVC | 19 | 50Ω | 101 pF/m | White | 100m |
| | 521-8436 | RG | RG58/C/U | LSZH | 19 | 50Ω | 100pf/m | Black | 100m |
| | 413-295 | RG | RG59/U | PVC | 7 | 75Ω | 55.76 pF/m | Black | 305m |
| | 331-9199 | RG | RG59/U | PVC | 7 | 75Ω | 56.744 pF/m | Black | 152m |
| | 521-8262 | RG | RG59B/U | PVC | 1 | 75Ω | 67.3 pF/m | Black | 100m |
| | 521-8464 | RG | RG59B/U | LSZH | 1 | 75Ω | 67 pF/m | Black | 100m |
| | 413-213 | RG | RG6 | LSZH | 1 | 75Ω | 53 pF/m | Black | 305m |
| | 331-9278 | RG | RG8/U | PVC | 1 | 50Ω | 80.688 pF/m | Black | 152m |
| | 331-8865 | Twinax | Twinax | PVC | 7 | 78Ω | 118pf/m | Blue | 152m |
| | 382-548 | Twinax | Twinax | PVC | 7 | 100Ω | 75.463pf/m | Black | 152m |
| | 521-8183 | URM | URM43 | PVC | 1 | 50Ω | 98pf/m | Black | 100m |
| | 521-8127 | URM | URM67 | PVC | 7 | 50Ω | 98pf/m | Black | 50m |
| | 521-8199 | URM | URM70 | PVC | 7 | 75Ω | 67pf/m | Black | 100m |
| | 521-8177 | URM | URM76 | PVC | 7 | 50Ω | 98pf/m | Black | 100m |
| TE connectivity | 235-5419 | RG | RG178 | LSZH | 7 | 50Ω | 98 pF/m | Black | 100m |
| | 235-5425 | RG | RG179 | LSZH | 7 | 75Ω | 65 pF/m | Black | 100m |
| | 235-5453 | RG | RG400 | LSZH | 19 | 50Ω | 98 pF/m | Black | 100m |

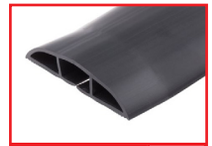


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