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Cables Selection Guide

View our extensive range of cables and accessories

January 2021

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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.

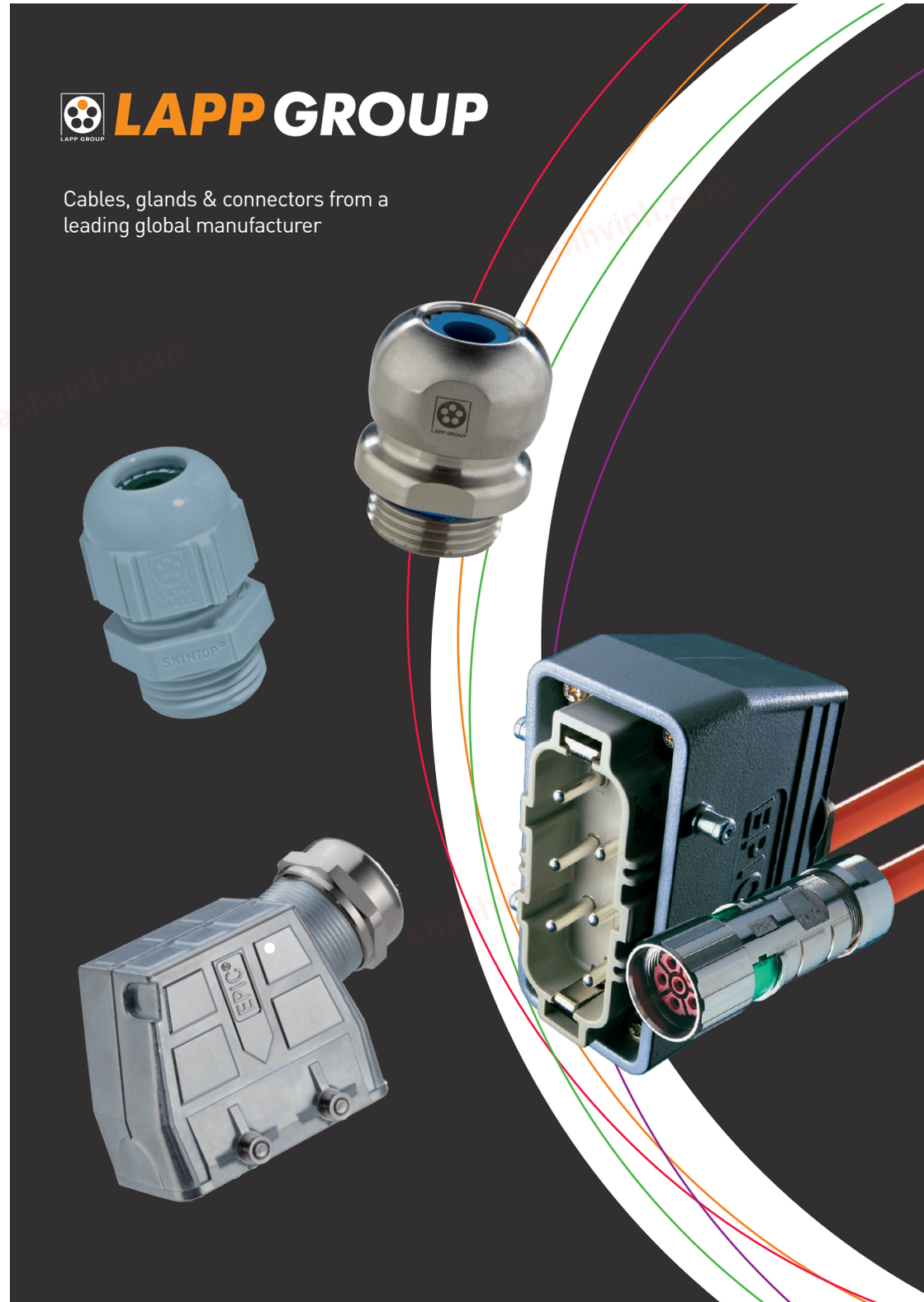
The complete AWG range for wire contains over 40 sizes with respective cross sectional areas and current carrying capacities.

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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LAPP GROUP

Cables, glands & connectors from a leading global manufacturer



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ELECTRICAL SCREENING

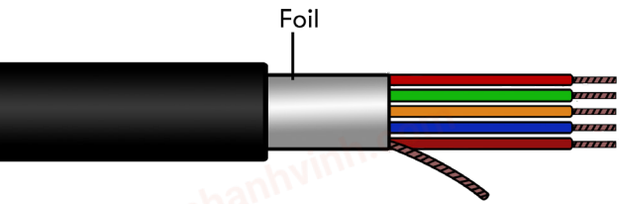
Cable screening is important in many wiring applications. Screening protects a conductor from external interference or EMI, prevents radiation from the cable itself and helps minimise cross-talk between conductors.

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.

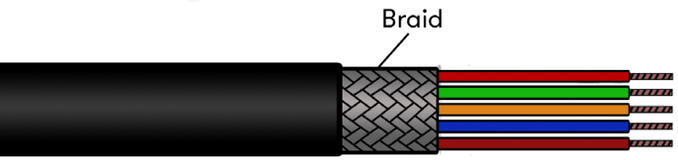
Types of screening



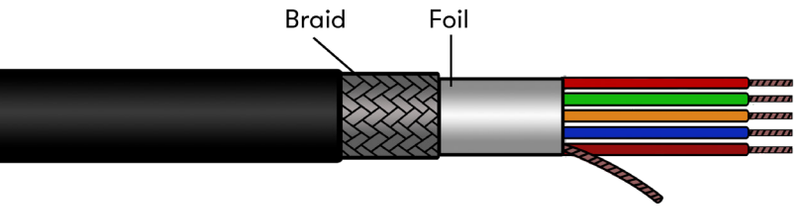
Unshielded



Foiled



Braided



Foiled, braided

Twisted pair (TP) screening

UTP
Unshielded



FTP
Foiled



STP
Shielded, unfoiled



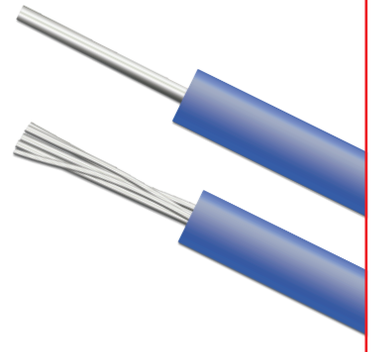
SF/TP
Shielded, foiled



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

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

View our Cable Tie Range

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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	-


Heatshrink Sleeving

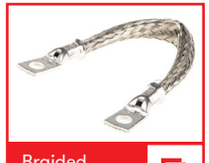

Cable Ties


Cable Marking Kits


Nylon Cable Glands


Cable Covers & Caps


Cable Sleeves


Braided Earth Leads


Circular Connectors

chanhvinh.com

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

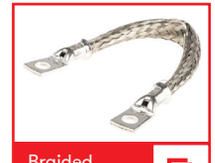

Cable Ties


Cable Marking Kits


Nylon Cable Glands


Cable Covers & Caps


Cable Sleeves


Braided Earth Leads


Circular Connectors

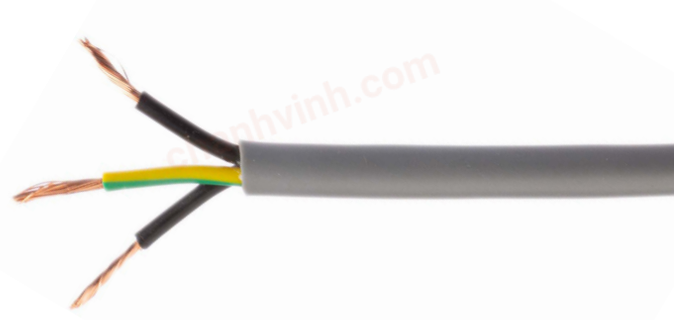
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YY

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


Nylon Cable Glands


Cable Covers & Caps


Cable Sleeves


Braided Earth Leads


Circular Connectors

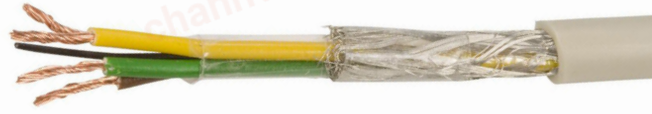
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Unitronic LiYCY & LiYY

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

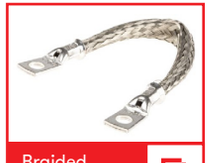

Cable Ties


Cable Marking Kits


Nylon Cable Glands


Cable Covers & Caps


Cable Sleeves


Braided Earth Leads


Circular Connectors

chanhvinh.com

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

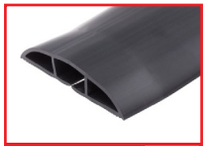
STANDARDS
BASEC
CENELEC HD21.5
HAR


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

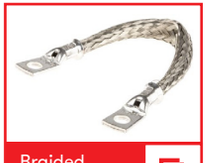

Cable Ties


Cable Marking Kits


Nylon Cable Glands


Cable Covers & Caps


Cable Sleeves


Braided Earth Leads


Circular Connectors

chanhvinh.com

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


Cable Covers & Caps


Cable Sleeves


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

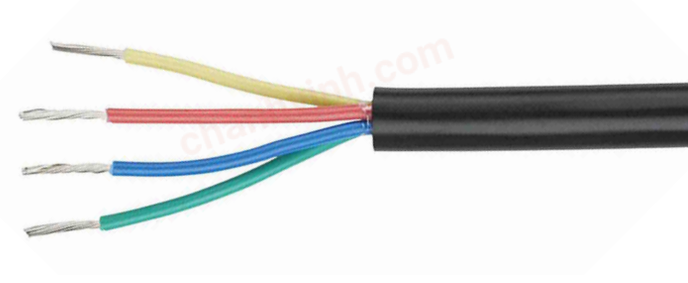

Circular Connectors

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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

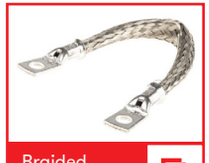

Cable Ties


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.

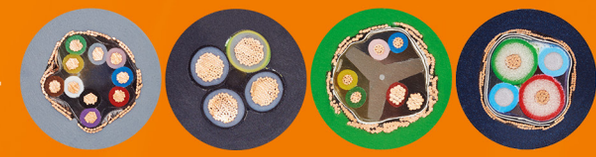
SPECIAL CABLES FOR E-CHAINS®

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



UL VERIFIED E129699 · CERTIFIED BY DNV·GL MARITIME · Guarantee igus chainflex 36 month guarantee · RoHS-II · DESINA · CE · Clean-Room

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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

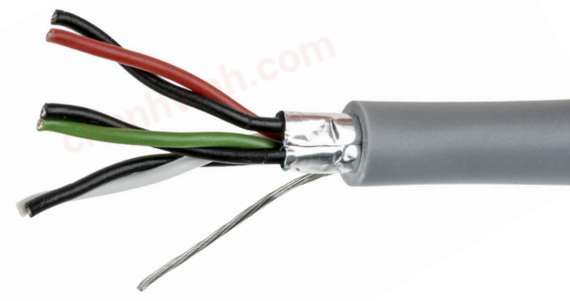
Brand	Standard Configuration	Standard	
		PVC	PUR
igus	(3×0.14)C	210-0550	-
	(4×0.14)C	210-0551	210-0567
	(5×0.14)C	210-0552	-
	(7×0.14)C	210-0553	-
	(14×0.14)C	210-0554	210-0568
	(18×0.14)C	210-0555	210-0569
	(3×0.25)C	210-0556	-
	(4×0.25)C	210-0557	210-0570
	(5×0.25)C	-	210-0571
	(7×0.25)C	210-0558	-
	(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	-	-	-	-	-


Heatshrink Sleeving

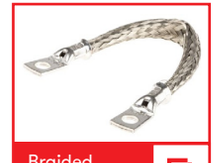

Cable Ties


Cable Marking Kits


Nylon Cable Glands


Cable Covers & Caps


Cable Sleeves


Braided Earth Leads


Circular Connectors

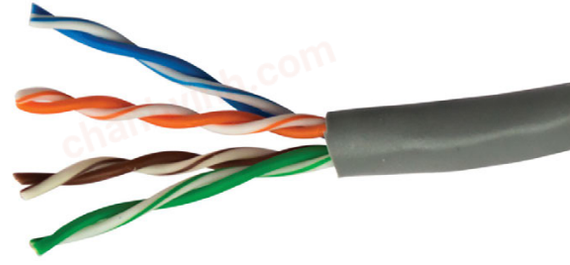
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LAN

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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RS PRO



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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

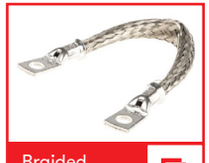

Cable Ties


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


Heatshrink Sleeving

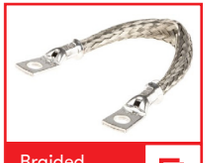

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