



**Copper
telecommunication
cables**





Draka Comteq Finland

Draka designs, manufactures and supplies cables and accessories and offer its products and related services to telecommunications, electricity transmission, construction and other industries. Draka is largest producer of optical fibre cables and datacom cables in Europe and one of the leading producers of mobile network cables in the world. Draka is also the biggest multi mode fibre and second largest single mode fibre producer in the world.



Draka

www.draka.fi

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Quality management system

Draka Comteq Finland's quality management system has been approved by an authorized certification company according to ISO 9001 standard. Operating according to the standard guarantees the quality and continuous improvement of our products and processes.

Environmental system

Draka Comteq Finland's environmental management system has been created to offer our customers products of better quality with less environmental impacts. The environmental system is followed through, controlled and developed in all our operations and it has been approved by an authorized certification company according to ISO14001 environmental standard.

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Symmetric pair cables

Indoor installation	Outdoor installation	Direct burial installation	Fire resistant	Fire rating	Halogen free	EMC screen	UV resistance		
								Outdoor cables	
	•	•			•	B	A	VMOHBU-TL	8
	•				•	B	A	VMOHBUK-TL	10
	•	•			•	B	A	VMOPU	12
	•				•	B	A	MU	14
	•				•	B	A	MHBU	14
								Indoor cables	
•				1		B	C	MHS	16
•				1	•	B	C	MHS-LSZH	18
•				1	•	D	C	RKKN	20
•				1	•	B	C	MMHS-HF	22
•				1	•	A	C	KLVMAAM-LSZH	24

Rating
A = good, B = fairly good, C = satisfactory, D = poor

Fire rating
1 = Flame retardant (IEC 60332-1)
3 = Fire retardant (IEC 60332-3)

Symmetric pair cables

Duct and direct buried cable



Type	VMOHBU-TL
Application	Outdoor access network cable for duct or direct buried installation
Construction	Conductor: Annealed copper wire Insulation: Cellular PE Twining: Two insulated conductors in a pair Lay-up: Stranded into units Filling compound: Special jelly Screen: Aluminium tape coated with a copolymer and a ground wire, tinned 0.8 mm Sheath: Black PE

Symmetric pair cables

SSTL code	Type VMOHBU-TL	Draka code	Diameter mm	Sheat thickness mm	Mass kg/km	Delivery length m	Drum
0256033	3x2x0.5	1004849	9.5	1.6	75	1000	K7
0256051	5x2x0.5	1004850	10.5	1.6	100	1000	K8
0256020	10x2x0.5	1004847	12.5	1.6	140	1000	K9
0256025	20x2x0.5	1004848	15.5	1.6	230	1000	K10
0256030	30x2x0.5	1007995	17.5	1.6	300	1000	K11
0225031	50x2x0.5	1007997	21.0	1.6	460	1000	K12
0225032	100x2x0.5	1007998	28.0	1.8	830	1000	K16
0225033	200x2x0.5	1008000	39.0	2.0	1650	1000	K20
0225035	400x2x0.5	1008004	52.0	2.2	3000	500	K22
0225038	800x2x0.5	1008008	71.0	2.6	5750	500	K22
0225041	3x2x0.6	1008011	10.0	1.6	90	1000	K7
0225042	5x2x0.6	1008012	11.5	1.6	125	1000	K8
0225043	10x2x0.6	1008013	14.0	1.6	185	1000	K10
0225044	20x2x0.6	1008014	17.5	1.6	310	1000	K11
0225045	30x2x0.6	1008015	20.0	1.6	410	1000	K12
0225046	50x2x0.6	1008016	24.5	1.6	630	1000	K14
0225047	100x2x0.6	1008017	33.0	1.8	1150	1000	K18
0225048	200x2x0.6	1008018	45.0	2.2	2300	1000	K22
0225051	10x2x0.8	1008024	16.5	1.6	270	1000	K11
0225052	20x2x0.8	1008025	22.0	1.6	480	1000	K14
0225053	30x2x0.8	1008026	25.0	1.6	670	1000	K14
0225054	50x2x0.8	1008027	32.0	1.8	1080	1000	K18

Symmetric pair cables

Aerial cable



Type	VMOHBUK-TL
Application	Outdoor access network cable for aerial installation
Construction	<p>Conductor: Annealed copper wire Insulation: Cellular PE Twining: Two insulated conductors in a pair Lay-up: Stranded into units Filling compound: Special jelly Screen: Aluminium tape coated with a copolymer and a ground wire, tinned 0.8 mm Suspension wire: The suspension wire is made of stranded galvanized steel wires. The nominal diameter is 7x1.20 mm Sheath: Black PE</p>

SSTL code	Type	Draka code	Diameter mm	Sheat thickness mm	Mass kg/km	Delivery length m	Drum
0224802	5x2x0.5	1008042	9.8x21.0	1.4	190	1000	K10
0224803	10x2x0.5	1008043	11.5x23.0	1.4	230	1000	K10
0224804	20x2x0.5	1008044	15.0x26.0	1.4	320	1000	K12
0224805	30x2x0.5	1008045	16.5x28.0	1.4	380	1000	K12
0224806	50x2x0.5	1008046	21.0x33.0	1.6	550	1000	K14
0224807	100x2x0.5	1008047	28.0x41.0	1.6	1000	1000	K20
0224810	10x2x0.6	1008050	13.0x24.0	1.4	270	1000	K11
0224811	20x2x0.6	1008051	16.5x28.0	1.4	380	1000	K12
0224812	30x2x0.6	1008052	20.0x32.0	1.6	510	1000	K14
0224813	50x2x0.6	1008053	25.0x37.0	1.6	730	1000	K16
0224815	5x2x0.8	1008055	13.0x24.0	1.4	260	1000	K11
0224816	10x2x0.8	1008056	16.0x27.0	1.4	360	1000	K12
0224817	20x2x0.8	1008057	22.0x34.0	1.6	580	1000	K16
0224819	50x2x0.8	1008059	32.0x45.0	1.8	1200	1000	K20

Symmetric pair cables

Direct buried cable



Type	VMOPU
Application	Outdoor access network cable for direct buried or underwater installation
Construction	Conductor: Annealed copper wire Insulation: Cellular PE Twinning: Two insulated conductors in a pair Lay-up: Stranded into units Filling compound: Special jelly Armouring: Galvanized steel wire Sheath: Black PE

SSTL code	Type VMOPU	Draka code	Diameter mm	Sheath thickness mm	Mass kg/km	Delivery length m	Drum
0256629	5x2x0.5		15.0	1.8	340	1000	K10
0256630	10x2x0.5	1004852	18.0	1.8	595	1000	K12
0256631	20x2x0.5	1004856	21.0	1.8	750	1000	K12
0256633	50x2x0.5	1004860	27.0	2.0	980	1000	K16
0256639	5x2x0.6		16.5	1.8	390	1000	K11
0256640	10x2x0.6	1004853	19.5	1.8	540	1000	K12
0256641	20x2x0.6	1004857	23.0	1.8	720	1000	K14
0256643	50x2x0.6		30.0	2.0	1250	1000	K18
0256649	5x2x0.8		19.0	1.8	500	1000	K12
0256650	10x2x0.8	1004854	22.0	1.8	650	1000	K14
0256651	20x2x0.8		27.0	2.0	990	1000	K16

Symmetric pair cables

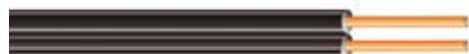
Self-supporting aerial cables



Type	MU, MHBU
Application	Outdoor access network drop cable for aerial installation
Construction	Conductor: Copper-clad steel wire Insulation: Solid PE Quadding: Four insulated conductors in a quad Screen (only in MHBU): Aluminium tape coated with a copolymer of polyethylene and a ground wire Sheath: Black PE

SSTL code	Type MU	Draka code	Diameter mm	Sheat thickness mm	Mass kg/km	Delivery length m	Drum
0290111	MU 1x4x0.8 drum	1004775	6.5	1.25	43	1000	S5
0290110	MU 1x4x0.8 drum	1004775-00500 DX	6.5	1.25	43	500	S4

SSTL code	Type MHBU	Draka code	Diameter mm	Sheat thickness mm	Mass kg/km	Delivery length m	Drum
0256108	MHBU 1x4x0.8 drum	1004733-01000 DX	8.2	1.25	64	1000	S5
0256107	MHBU 1x4x0.8 drum	1004733-00500 DX	8.2	1.25	64	500	S4

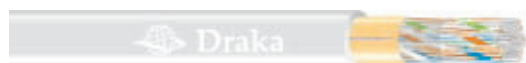


Type	MU
Application	Drop wire
Construction	Conductor: Copper-clad steel wire Insulation: Solid PE Structure: Figure-8

SSTL code	Type MU	Draka code	Nominal outer dimensions width x height mm	Mass kg/km	Delively length m	Drum
0250108	MU 2x1.0 drum	1004782-01500 DX	3.5 x 6.5	29	1500	S6
	MU 2x1.0 drum	1004782-00500 DX	3.5 x 6.5	29	500	S4

Symmetric pair cables

Indoor cable

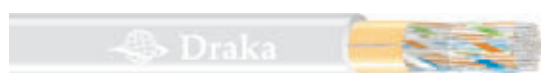


Type	MHS
Application	Indoor cable for access networks
Construction	Conductor: Annealed, tinned copper wire Insulation: Solid PE Twinning: Two insulated conductors in a pair Lay-up: Stranded into units Ground wire: Annealed, tinned copper wire Screen: Plastic-aluminium foil Sheath: Grey PVC

SSTL code	Type MHS	Draka code	Diameter mm	Sheat thickness mm	Mass kg/km	Delivery length m	Drum/ packaging
0295131	1x4x0.5	1003545-01000 DO	4.5	1.0	30	1000	K5
0255121	1x4x0.5	1003545-00100 RW	4.5	1.0	30	100	coil
0255131	1x4x0.5	1003545-00300 RW	4.5	1.0	30	300	coil
0295132	3x2x0.5	1003542-01000 DO	5.0	1.0	36	1000	K6
0255132	3x2x0.5	1003542-00200 RW	5.0	1.0	36	200	coil
0295133	5x2x0.5	1003543-01000 DO	6.0	1.0	50	1000	K6
0255133	5x2x0.5	1003543-00150 RW	6.0	1.0	50	150	coil
0255134	10x2x0.5	1003614-01000 DX	7.6	1.0	78	1000	K6
0255135	10x2x0.5	1003614-00200 RS	7.6	1.0	78	200	coil
0255136	20x2x0.5	1003615	9.5	1.0	130	1000	K7
0255137	30x2x0.5	1003616	11.5	1.1	185	1000	K8
0255138	50x2x0.5	1003617	14.0	1.1	285	1000	K9
0255140	100x2x0.5	1003559	19.0	1.2	550	1000	K12
0255142	200x2x0.5	1004739	26.0	1.5	1030	1000	K16

Symmetric pair cables

Halogen free indoor cable



Type	MHS-LSZH
Application	Indoor cable for access networks
Construction	Conductor: Annealed, tinned copper wire Insulation: Solid PE Twinning: Two insulated conductors in a pair Lay-up: Stranded into units Ground wire: Annealed, tinned copper wire Screen: Plastic-aluminium foil Sheath: Grey HFFR-compound

SSTL code	Type MHS-LSZH	Draka code	Diameter mm	Sheath thickness mm	Mass kg/km	Delivery length m	Drum/ packaging
0202402	1x4x0.5	1003590	5.1	1.0	28	1000	K5
0202404	1x4x0.5	1003590-00100RW	5.1	1.0	28	100	coil
0202406	1x4x0.5	1003590-00300RW	5.1	1.0	28	300	coil
0202408	3x2x0.5	1003591	5.8	1.0	36	1000	K6
0202410	3x2x0.5	1003591-00200RW	5.8	1.0	36	200	coil
0202412	5x2x0.5	1003592	6.7	1.0	49	1000	K6
0202414	5x2x0.5	1003592-00150RW	6.7	1.0	49	150	coil
0202416	10x2x0.5	1004746-01000DX	7.8	1.0	73	1000	K6
0202418	10x2x0.5	1004746-00200RW	7.8	1.0	73	200	coil
0202420	20x2x0.5	1004749-01000DW	9.2	1.0	120	1000	K7
0202422	20x2x0.5	1004749-00150RS	9.2	1.0	120	150	coil
0202424	30x2x0.5	1004751-01000DX	11.0	1.1	170	1000	K8
0202426	50x2x0.5	1004753-01000DX	14.0	1.1	270	1000	K9
0202428	100x2x0.5	1004745-01000DX	19.5	1.2	505	1000	K12

Symmetric pair cables

Cross-connection cable



Type	RKKN
Application	A cross-connection cable for exchanges and distribution boxes
Construction	Conductor: Annealed, tinned copper wire Insulation: Polyamide Twining: Two insulated conductors in a pair

SSTL code	Type RKKN	Draka code	Diameter mm	Mass kg/km	Delivery length m	Packaging
0201279	2x0.6	1003565	1.9	6.5	500	P2

COLOUR CODE

Conductor	Insulation colour
a	blue
b	red

Symmetric pair cables

Halogen free installation cable



Type	MMHS-HF
Application	Wiring of exchanges for digital and analogue signals.
Construction	Conductor: Annealed, tinned copper wire Insulation: HDPE plastic Twinning: Two insulated conductors in a pair Lay-up: Stranded into sub-units Screen: Plastic-aluminium foil and a ground wire Sheath: Grey HFFR-compound

Symmetric pair cables

SSTL code	Type MMHS-HF	Draka code	Diameter mm	Mass kg/km	Delivery length m	Drum
0202802	2x2x0.4	1003552	4.2	20	1000	S4
0202804	4x2x0.4	1003553	5.2	28	1000	S5
0202808	8x2x0.4	1004773	6.3	49	1000	S5
0202805	2x5x2x0.4	1004768	7.0	57	1000	S5
0202812	2x8x2x0.4	1004769	7.8	78	1000	S6
0202813	3x8x2x0.4	1004770	9.0	98	1000	S7
0202814	4x8x2x0.4	1004772	9.8	125	1000	S7
0202815	4x5x2x0.4	1004771	8.3	85	1000	S6
0202818	8x5x2x0.4	1004774	11.0	150	1000	S8

Symmetric pair cables

Halogen free installation cable



Type	KLVMAAM-LSZH
Application	Installation cable for exchanges with screened pairs.
Construction	<p>Conductor: Annealed, tinned copper wire Insulation: Cellular PE Twining: Two insulated conductors in a pair Pair screen: Plastic-aluminium foil and a ground wire Lay-up: Stranded into sub-units Common screen: Two layers of plastic- aluminium foil and a ground wire Sheath: Grey HFFR-compound</p>

Symmetric pair cables

SSTL code	Type KLVMAAM-LSZH	Draka code	Diameter mm	Mass kg/km	Delivery length m	Drum
0202162	2x(2+1)x0.4	1005575	6.1	32	1000	S6
0202168	8x(2+1)x0.4	1005570	9.0	78	1000	S7
0202170	16x(2+1)x0.4	1005574	14.0	170	500	K9
0202172	24x(2+1)x0.4	1005576	17.0	250	500	K11

Symmetric pair cables

Minimum bending radius	During installation	During operation	Maximum pulling force	Minimum installation temperature °C	Velocity factor
Outdoor cables					
VMOHBU-TL	15xD	7xD	*)	-20	0.67
VMOHBUK-TL	15xD	7xD	*)	-20	0.67
VMOPU	20xD	10xD	*)	-10	0.67
MU	15xD	7xD	*)	-20	0.66
MHBU	15xD	7xD	*)	-20	0.66
Indoor cables					
MHS, MHS-LSZH	15xD	7xD	*)	-5	0.66
RKKN	1,5xD	1xD	*)	-20	
MMHS-HF	15xD	7xD	*)	-5	0.66
KLVMAAM-LSHZ	15xD	7xD	*)	-5	0.66

D= outer diameter of the cable

d= outer diameter of the conductor

*) Maximum pulling force for separate components

Copper conductors 50 N/mm

Suspension wire 900 N/mm

PE sheath 9 N/mm

ATTENUATION

Frequency kHz	VMOHBU(K)-TL, ATTENUATION dB/km			ATTENUATION dB/km	ATTENUATION dB/km
	0,5 mm	0,6 mm	0,8 mm	MHS	MMHS-HF
0,8	1	0,8	0,6	1,4	1,8
10	3,0	2,4	1,9	4,3	5,8
100	6,1	4,6	3,1	8,2	13,3
1000	16,0	13,0	10,0	26,0	28,0

CROSSTALK ATTENUATION

Frequency MHz	VMOHBU(K)-TL, CROSSTALK ATTENUATION			
	Minimum NEXT dB	Minimum PS NEXT dB	Minimum ELFEXT dB/km	Minimum PS ELFEXT dB/km
1	48	44	42	38

LOOP RESISTANCE

Copper conductors		Copper-clad steel wires	
Diameter mm	ohm/km	Diameter mm	ohm/km
0,5	184	0,8	168
0,6	128	1,0	106
0,8	71		

Symmetric pair cables

The colour code system of telecommunication cables

1-QUAD MHS CABLE

Colour of insulation

- a-wire: blue
- b-wire: white
- c-wire: orange
- d-wire: red

The auxiliary wire in the MHS-cable is red. A twisted pair wire is used for the signalling of the signal.

10-PAIR COUNT

Pair nr. Colour of insulation a-wire b-wire

BINDER COLOUR CODE

Sub-unit number Binder colour

Main unit coding by numbered binders: 1-10

For the pairs numbers 1 to 5 the basic colour of insulation of b-wire is white and for the pairs numbers 6 to 10 the colour is black. On the b-wire there are two lines of the same colour as the corresponding a-wire.

Lay-ups for stranded pair cables

PAIR NUMBER	2	3	5	10	20	30	50	100
CORE MAKE-UP	1x4	3	5	2+8 (sub-unit)	2x10	3x10	5x10	10x10
PAIR NUMBER	200	300	400	600	800	1000	1500	2400
CORE MAKE-UP	4x(5x10)	6x(5x10)	4x(10x10)	6x(10x10)	8x(10x10)	10x(10x10)	15x(10x10)	24x(10x10)
PAIR NUMBER	1200	1600	2000	2400	3000	3600	4800	7200
CORE MAKE-UP	12x(10x10)	16x(10x10)	4x(50+6x100+12x100)	6x(50+6x100+12x100)	8x(50+6x100+12x100)	10x(50+6x100+12x100)	15x(50+6x100+12x100)	24x(50+6x100+12x100)

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Draka LINKKI

Generic cabling

Draka Linkki is Draka's premises cabling solution for a highly reliable open cabling system.

Draka's wide cable range covers products suitable for premises communication networks. As the generic cabling application standards have been revised, these cables and other related components have been integrated into the concept of Draka Linkki.

Draka Linkki is an open cabling system that complies with the European standard on generic cabling. The cabling system is suitable for telephone networks including broadband access interfaces, local area networks and control and building automation applications. In terms of copper cables, we offer the UC (Universal Cable) series comprising generic cables in categories 5, 6 and 7, and a Supercat cable for outdoor applications.

For longer distances and connections between buildings, especially when fast connections are needed, we recommend the use of fibre optic cables. The multimode fibre cable categories listed in the cabling standards are OM1, OM2 and OM3. The corresponding categories for single-mode fibre cables are OS1 and OS2. We offer products in all these fibre classes.

You can choose from our wide product range: the FZOMSU-SD, a generic premises cable suitable for indoor/outdoor use, and the FTMS for horizontal cabling. These cables can be supplied with different category fibres. Backbone cables can be terminated in an ORP 260 cross-connection distribution panel in building and floor distributors.

Data cables

Indoor installation	Outdoor installation	Direct burial installation	Fire rating	Halogen free	EMC screen	UV resistance		
							Category 5 data cables	
•			1			C	UC 300 4p	34
•			1			C	UC 300 2x4p	34
•			1	•		C	UC 300 4p LSHF	34
•			1	•		C	UC 300 2x4p LSHF	34
•			1		A	C	UC 300 S 4p	34
•			1		A	C	UC 300 S 2x4p	34
•			1	•	A	C	UC 300 S 4p LSHF	34
•			1	•	A	C	UC 300 S 2x4p LSHF	34
•			3	•	A	C	ToughCAT	36
							Category 6 data cables	
•			1			C	UC 400 4p	38
•			1			C	UC 400 2x4p	38
•			1	•		C	UC 400 4p LSHF	38
•			1	•		C	UC 400 2x4p LSHF	38
•			1		A	C	UC 400 S 4p	38
•			1		A	C	UC 400 S 2x4p	38
•			1	•	A	C	UC 400 S 4p LSHF	38
•			3	•	A	C	UC 400 S 4p LSHF-FR	38
•			1	•	A	C	UC 400 S 2x4p LSHF	38
•			3	•	A	C	UC 400 S 2x4p LSHF-FR	38
	•	•				A	Supercat 1000 kat6 UTP 4p	40
	•	•				A	Supercat 1000 kat6 UTP 4p ARM	40
							Category 7 data cables	
•			1	•	A	C	UC 900 23/1 SS 4p LSHF	42
•			1	•	A	C	UC 900 23/1 SS 2x4p LSHF	42
•			3	•	A	C	UC 900 23/1 SS 4p LSHF-FR	42
•			1	•	A	C	UC 1500 SS 23/1 4p LSHF	42

Rating
A = good, B = fairly good, C = satisfactory, D = poor

Fire rating
1 = Flame retardant (IEC 60332-1)
3 = Fire retardant (IEC 60332-3)

Data cables

Category 5 data cable



Type	UC 300
Application	Primary (campus), secondary (riser) and tertiary (horizontal) fixed indoor installations. IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T IEEE 802.5: 16MB; ISDN; FDDI; ATM Telephone network
Standards	EN 50173; EN 50288-3-1 ISO/IEC 11801 2nd ed.; IEC 61156-5 EIA/TIA 568A;
Construction	Conductor: Annealed copper Insulation: PE Unit: Twisted pair Screen: Plastic-aluminium foil and tinned copper ground wire in F/UTP construction Sheath: Grey RAL 7035 PVC or halogen free thermoplastic compound

SSTL code	Type UC 300	Draka code	UTP/FTP Siam., D PVC/HF	Diameter mm	Mass kg/km	Delivery length m	Packaging
0264005	4p	L433140	UTP, PVC	5.0	35	500	disposable
0264007	2x4p	L433141	UTP, D, PVC	5.0 x 10.0	70	500	disposable
0264035	4p LSHF	L704236	UTP, HF	5.0	36	500	disposable
0264037	2x4p LSHF	L703529	UTP, D, HF	5.0 x 10.0	72	500	disposable
0264001	S 4p	L433137	FTP, PVC	5.9	36	500	disposable
0264064	S 2x4p	L433139	FTP, D, PVC	5.9 x 11.8	72	500	disposable
0264031	S 4p LSHF	L704235	FTP, HF	5.9	37	500	disposable
0264033	S 2x4p LSHF	L703530	FTP, D, HF	5.9 x 11.8	74	500	disposable

Data cables

Category 5 data cable



Type	ToughCAT S/FTP 4x2/0,22mm² LSFR0H
Application	Primary (campus), secondary (riser) and tertiary (horizontal) fixed outdoor installations. IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T IEEE 802.5: 16MB; ISDN; FDDI; ATM Telephone network
Standards	EN 50173; EN 50288-2-1, EN 50288-4-2 ISO/IEC 11801 2nd ed.; IEC 61156-6 EIA/TIA 568A; Flame resistance LSHF-FR: IEC 60332-1; IEC 60754-2; IEC 61034; IEC 60332-3-24 Oil resistant inner sheath Norm CEI 20.34: 4 hours, 70°C in IRM902 oil
Construction	Conductor: Annealed copper Insulation: PE Unit: Twisted pair Screen: Plastic-aluminium foil around each pair Common screen: tinned copper braid Sheath: Grey RAL 7035 oil resistant, fire retardant halogen free thermoplastic compound

SSTL code	Type	Draka code	Diameter	Mass	Delivery length	Packaging
	4x2/0.22mm ²		mm	kg/km	m	
0241284	4p	L719359	7.8	44	500	disposable

Data cables

Category 6 data cable



Type	UC 400
Application	Primary (campus), secondary (riser) and tertiary (horizontal) fixed indoor installations. IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T IEEE 802.5 16 MB; ISDN; TPDDI; ATM Telephone network
Standards	EN 50173-1, EN 50288-6-1 ISO/IEC 11801 2nd ed.; IEC 61156-5 EIA/TIA-568-B.2-1 6/2002.
Construction	Conductor: Annealed copper Insulation: PE Unit: Twisted pairs in non-metallic splines Screen: Two plastic-aluminium foils and a tinned copper ground wire - in F/UTP construction Sheath: Blue RAL 5012 PVC or halogen free thermoplastic compound

SSTL code	Type UC 400	Draka code	Construction	Diameter mm	Mass kg/km	Delivery length m	Packaging
0264071	4p	L703447	UTP, PVC	6.2	39	500	disposable
0264072	2x4p	L703448	UTP, D, PVC	6.2 x 12.5	78	500	disposable
0264040	4p LSHF	L712461	UTP, HF	6.2	40	500	disposable
0264070	2x4p LSHF	L716164	UTP, D, HF	6.2 x 12.5	80	500	disposable
0264075	S 4p	L703449	FTP, PVC	6.5	41	500	disposable
0264076	S 2x4p	L703450	FTP, D, PVC	6.5 x 13.0	82	500	disposable
0264073	S 4p LSHF	L706882	FTP, HF	6.5	44	500	disposable
0264078	S 4p LSHF-FR	L714922	FTP, HF	6.5	44	500	disposable
0264074	S 2x4p LSHF	L706719	FTP, D, HF	6.5 x 13.0	88	500	disposable
0264080	S 2x4p LSHF-FR	L713104	FTP, D, HF	6.5 x 13.0	88	500	disposable

Data cables

Category 6 data cable



Type	SuperCAT 1000
Application	Primary (campus), secondary (riser) and tertiary (horizontal) fixed underground and outdoor installations. IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T IEEE 802.5: 16MB; ISDN; TPFDDI; ATM Telephone network
Standards	EN 50173-1, EN 50288-6-1 ISO/IEC 11801 2nd ed.; IEC 61156-5 EIA/TIA-568-B.2-1 6/2002.
Construction	Conductor: Annealed copper Insulation: PE Unit: Twisted pair Filling compound: Waterproof gel Sheath: Black PE Armouring: Aluminium laminate - in ARM construction Outer sheath: Black PE - in ARM construction

SSTL code	Type SuperCAT 1000	Draka code	UTP/FTP	Diameter mm	Mass kg/km	Delivery length m	Packaging
0264020	4p	L718313	UTP	6.8	46	305	disposable
0264022	4p ARM	L718314	UTP	9.6	82	500	disposable

Data cables

Category 7 data cable



Type	UC 900, UC 1500
Application	Primary (campus), secondary (riser) and tertiary (horizontal) fixed indoor installations. IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T IEEE 802.5 16 MB; ISDN; TPDDI; ATM EN 50173-1; EN 50288-4-1 ISO/IEC 11801; IEC 61156-5
Construction	Conductor: Annealed copper Insulation: PE Unit: Twisted pair Screen: plastic-aluminium foil around each pair Common screen: tinned copper braid Sheath: Orange RAL 2003, yellow RAL 1028 halogen free thermoplastic compound

SSTL code	Type UC 900	Draka code	Construction	Diameter mm	Mass kg/km	Delivery length m	Packaging
0264056	SS 4p LSHF	L707063	S/STP, HF	7.5	75	500	disposable
0264081	SS 2x4p LSHF	L703605	S/STP, D, HF	7.5 x 15	150	500	disposable
0264082	SS 4p LSHF-FR	L706710	S/STP, HF	7.5	75	1000	disposable

SSTL code	Type UC 1500	Draka code	Construction	Diameter mm	Mass kg/km	Delivery length m	Packaging
0264091	SS 23/1 4p LSHF	L711523	S/STP, HF	7.9	81	1000	disposable

Data cables

Minimum bending radius	During installation	During operation	Minimum installation temperature °C	Maximum pullig force	Velocity factor
Category 5 data cable					
UC 300 4p	40	20	0	80	0.67
UC 300 2x4p	40	20	0	160	0.67
UC 300 4p LSHF	40	20	0	80	0.67
UC 300 2x4p LSHF	40	20	0	160	0.67
UC 300 S 4p	50	25	0	80	0.67
UC 300 S 2x4p	50	25	0	160	0.67
UC 300 S 4p LSHF	50	25	0	80	0.67
UC 300 S 2x4p LSHF	50	25	0	160	0.67
ToughCAT	65	32	0	100	0.75
Category 6 data cable					
UC 400 4p	40	20	0	80	0.67
UC 400 2x4p	40	20	0	160	0.67
UC 400 4p LSHF	40	20	0	80	0.67
UC 400 2x4p LSHF	40	20	0	160	0.67
UC 400 S 4p	70	35	0	100	0.79
UC 400 S 2x4p	70	35	0	200	0.79
UC 400 S 4p LSHF	70	35	0	100	0.79
UC 400 S 4p LSHF-FR	70	35	0	100	0.79
UC 400 S 2x4p LSHF	70	35	0	200	0.79
UC 400 S 2x4p LSHF-FR	70	35	0	200	0.79
Supercat 1000 kat6 UTP 4p	70	35	-20	80	0.69
Supercat 1000 kat6 UTP 4p ARM	80	40	-20	80	0.69
Category 7 data cable					
UC 900 23/1 SS 4p LSHF	80	40	0	340	0.78
UC 900 23/1 SS 2x4p LSHF	80	40	0	680	0.78
UC 900 23/1 SS 4p LSHF-FR	80	40	0	340	0.78
UC 1500 SS 23/1 4p LSHF	80	40	0	340	0.79

Antenna cables

Indoor installation	Outdoor installation	Direct burial installation	Fire rating	Halogen free	EMC screen	UV resistance	Velocity factor		
Corrugated TELLU® cables 75 Ω									
	•	P	-	•	•	A	0.87	TELLU® 7	page 48
	•	•	-	•	•	A	0.87	TELLU® 7 ARM	48
	•	-	-	•	•	A	0.87	TELLU® 7 AIR	48
	•	P	-	•	•	A	0.87	TELLU® 5	48
	•	•	-	•	•	A	0.87	TELLU® 5 ARM	48
	•	-	-	•	•	A	0.87	TELLU® 5 AIR	48
	•	P	-	•	•	A	0.87	TELLU® 3	48
	•	•	-	•	•	A	0.87	TELLU® 3 ARM	48
	•	-	-	•	•	A	0.87	TELLU® 3 AIR	48
	•	P	-	•	•	A	0.87	TELLU® SUPERTRUNK	48
	•	•	-	•	•	A	0.87	TELLU® SUPERTRUNK ARM	48
•		-	3	•	•	B	0.87	TELLU® 7 GHF	48
•		-	3	•	•	B	0.87	TELLU® 5 GHF	48
CATV distribution network indoor cables 75 Ω									
•		-	1	-	•	C	0.8	TELLU® 13 VA 1000m	50
•		-	1	-	•	C	0.8	TELLU® 13 VA 200m	50
•		-	3	•	•	C	0.8	TELLU® 13 FRNC-C 1000m	50
•		-	3	•	•	C	0.8	TELLU® 13 FRNC-C 200m	50
•		-	1	-	•	C	0.85	COAX 10 AD 10 E 1000m	50
•		-	1	-	•	C	0.85	COAX 10 AD 10 E 200m	50

P= Duct installation

Rating

A = good, B = fairly good, C = satisfactory, D = poor

• = Primary application

Fire rating

1 = Flame retardant (IEC 60332-1)

3 = Fire retardant (IEC 60332-3)

Antenna cables

Corrugated TELLU® 75 Ω cables



Type	TELLU®
Application	TELLU® is the complete series of cable-tv trunk and distribution network cables. It complies European EN 50117 requirements. It is ready for the new digital radio- and tv- broadcasting (DAB, DVB-T, DVB-C), and for the distribution of internet in cable-tv networks.
Construction	Corrugated 75 Ω coaxial cable Inner conductor: Annealed copper wire Insulation: Cellular PE Outer conductor: Welded and corrugated copper tube Sheath: Black HDPE or PVC ARM: Galvanized steel tape and black HDPE outer sheath AIR: Suspension wire 7 x 1.2 mm and black HDPE outer sheath figure-8 construction 3x2x0.5: Symmetric paircable inside figure-8 sheath construction

SSTL code	Type TELLU®	DNKC code	Diameter of inner conductor mm	Diameter of outer conductor mm	Diameter/ dimensions mm	Delivery length m	Drum
Outdoor installation:							
0232187	TELLU® 7	L403658	1.7	8.2	11.0	1000	11G
0232188	TELLU® 7 ARM	L404917	1.7	8.2	15.0	1000	13G
0232189	TELLU® 7 AIR	L404922	1.7	8.2	11.0 x 20.0	1000	13G
0232195	TELLU® 5	L405050	2.8	13.1	16.5	1000	15G
0232196	TELLU® 5 ARM	L405227	2.8	13.1	21.0	1000	15G
0232197	TELLU® 5 AIR	L405236	2.8	13.1	16.5 x 26.0	1000	15G
0232191	TELLU® 3	L403665	4.2	19.1	23.1	1200	18M
0232192	TELLU® 3 ARM	L404679	4.2	19.1	28.0	1200	18M
0232193	TELLU® 3 AIR	L404748	4.2	19.1	23.1 x 34.0	1200	18M
0232194	TELLU® SUPERTRUNK	L409854	5.7	25.0	28.0	1200	18M
0232157	TELLU® SUPERTRUNK ARM	L417570	5.7	25.0	33.0	1200	18M
Indoor installation:							
0232177	TELLU® 7 GHF	L421718	1.7	8.2	11.0	1000	11G
0232199	TELLU® 5 GHF	L707685	2.8	13.1	16.5	1000	15G

Antenna cables

Indoor distribution cables



Type	TELLU® 13
Application	Indoor cable for TV, community antenna and cable-TV networks.
Construction	Corrugated 75 Ω coaxial cable Inner conductor: Annealed copper wire Insulation: Cellular PE Outer conductor: Copper tape covered with a copper braid Sheath: White Linyl-PVC or fire retardant halogen free thermoplastic compound jacket (IEC 60332-3-24)

SSTL code	Type TELLU® 13	Diameter mm	DNKC code	Diameter of inner conductor mm	Dielectric diameter mm	Mass kg	Delivery length m
0282186	TELLU® 13 VA	7.0	L429522	1.0	4.65	58	1000
0232186	TELLU® 13 VA	7.0	L429524	1.0	4.65	58	200
0282182	TELLU® 13 FRNC-C	7.0	L716240	1.0	4.65	60	1000
0232182	TELLU® 13 FRNC-C	7.0	L716044	1.0	4.65	60	200



Type	COAX 10 AD 10 E
Application	Indoor cable for TV, community antenna and cable-TV networks.
Construction	Corrugated 75 Ω coaxial cable Inner conductor: Annealed copper wire Insulation: Cellular PE Outer conductor: Plastic-aluminium foil covered with a tinned copper braid Sheath: White PVC

SSTL code	Type COAX 10 AD 10 E	Diameter mm	DNKC code	Diameter of inner conductor mm	Dielectric diameter mm	Mass kg	Delivery length m
0232181	COAX 10 AD 10 E	6.8	L712087	1.0	4.65	44	200/disposable
0282181	COAX 10 AD 10 E	6.8	L712088	1.0	4.65	44	1000

Bending radius

Antenna cables

Corrugated TELLU® 75 Ω

	Final bending mm	Repeated bending mm
TELLU® 7	85	170
TELLU® 7 ARM	120	240
TELLU® 7 AIR	85	170
TELLU® 5	125	250
TELLU® 5 ARM	160	320
TELLU® 5 AIR	125	250
TELLU® 3	180	360
TELLU® 3 ARM	210	420
TELLU® 3 AIR	180	360
TELLU® SUPERTRUNK	210	420
TELLU® SUPERTRUNK ARM	250	500
TELLU® 7 GHF	85	170
TELLU® 5 GHF	125	250

Indoor distribution cables

	Final bending mm	Repeated bending mm	Maximum tension N
TELLU® 13 VA	15	30	110
TELLU® 13 FRNC-C	15	30	110
COAX 10 AD 10 E	35	70	110

Attenuation of antenna cables

Frequency (MHz)	Attenuation (dB/100m)				
	TELLU® 13 COAX 10 AD 10 E	TELLU® 7	TELLU® 5	TELLU® 3	TELLU® SUPERTRUNK
68	5.1	2.9	1.8	1.2	0.9
88	5.8	3.3	2.1	1.4	1.1
108	6.5	3.7	2.3	1.6	1.2
125	7.0	4.0	2.5	1.7	1.3
174	8.2	4.7	3.0	2.0	1.5
300	11.0	6.2	4.0	2.7	2.1
470	13.9	7.9	5.1	3.5	2.7
606	15.9	9.0	5.9	4.1	3.1
862	19.2	10.9	7.1	5.0	3.8
950	20.2	11.5	7.5	5.2	4.0
1750	28.2	16.0	10.7	7.5	5.8
2150	31.6	18.0	12.0	8.5	6.6

Drum sizes

Cable type	Drum type	Code	Standard length m	Outer diameter cm (D)	Barrel diameter cm (d)	Outer width cm (W)	Net winding width cm (w)	Shaft hole mm (e)	Drum weight kg
Corrugated TELLU®									
TELLU® 7	11G		1000	110	50	72.5	60	82	60
TELLU® 7 ARM	13G		1000	130	60	76	60	82	125
TELLU® 7 AIR	13G		1000	130	60	76	60	82	125
TELLU® 7 GHF	11G		1000	110	50	72.5	60	82	60
TELLU® 5	15G		1000	150	70	76	60	82	160
TELLU® 5 ARM	15G		1000	150	70	76	60	82	160
TELLU® 5 AIR	15G		1000	150	70	76	60	82	160
TELLU® 5 GHF	15G		1000	150	70	76	60	82	160
TELLU® 3	18M		1200	180	110	102.5	85	82	245
TELLU® 3 ARM	18M		1200	180	110	102.5	85	82	245
TELLU® 3 AIR	18M		1200	180	110	102.5	85	82	245
TELLU® SUPERTRUNK	18M		1200	180	110	102.5	85	82	245
TELLU® SUPERTRUNK ARM	18M		1200	180	110	102.5	85	82	245
Indoor distribution cables 75 Ω									
TELLU® 13 VA 1000m	S6	NKDS6	1000	600	250	430	400	55	9
TELLU® 13 VA 200m	S4	NKDS4	200	400	175	312	300	55	2
TELLU® 13 FRNC-C 1000m	S6	NKDS6	1000	600	250	430	400	55	9
TELLU® 13 FRNC-C 200m	S4	NKDS4	200	400	175	312	300	55	2
COAX 10 AD 10 E 1000m	S6	NKDS6	1000	600	250	430	400	55	9
COAX 10 AD 10 E 200m	S4	NKDS4	200	400	175	312	300	55	2

Indoor coverage products

Indoor installation	Outdoor installation	Direct burial installation	Fire rating	Halogen free	EMC screen	UV resistance	Velocity factor		page
Coaxial cables RF									
-	•	-	-	•	•	•	0.86	RFA 3/8"-50	60
-	•	-	-	•	•	•	0.88	RFA 1/2"-50	60
-	•	-	-	•	•	•	0.90	RFA 7/8"-50	60
-	•	-	-	•	•	•	0.90	RFA 7/8"-50 AL	60
•	-	-	3	•	•	•	0.90	RFA 7/8"-50 AL BHF	60
-	•	-	-	•	•	•	0.88	RFA 1 1/4"-50	60
-	•	-	-	•	•	•	0.89	RFA 1 5/8"-50	60
-	•	-	-	•	•	•	0.88	RFA 2 1/4"-50	60
-	•	-	-	•	•	•	0.83	RFF 1/4"-50	60
-	•	-	-	•	•	•	0.81	RFF 3/8"-50	60
-	•	-	-	•	•	•	0.82	RFF 1/2"-50	60
-	•	-	-	•	•	•	0.88	RFE 7/8"-50	60
-	•	-	-	•	•	•	0.88	RFE 1 1/4"-50	60
-	•	-	-	•	•	•	0.88	RFE 1 5/8"-50	60
•	•	-	3	•	•	•	0.86	RFA 3/8"-50 BHF	60
•	•	-	3	•	•	•	0.88	RFA 1/2"-50 BHF	60
•	•	-	3	•	•	•	0.90	RFA 7/8"-50 BHF	60
•	•	-	3	•	•	•	0.88	RFA 1 1/4"-50 BHF	60
•	•	-	3	•	•	•	0.89	RFA 1 5/8"-50 BHF	60
•	•	-	3	•	•	•	0.88	RFA 2 1/4"-50 BHF	60
•	•	-	3	•	•	•	0.83	RFF 1/4"-50 BHF	60
•	•	-	3	•	•	•	0.81	RFF 3/8"-50 BHF	60
•	•	-	3	•	•	•	0.82	RFF 1/2"-50 BHF	60
•	•	-	3	•	•	•	0.88	RFE 7/8"-50 BHF	60
•	•	-	3	•	•	•	0.88	RFE 1 1/4"-50 BHF	60
•	•	-	3	•	•	•	0.88	RFE 1 5/8"-50 BH	60
Coaxial antennas RFX									
•	•	-	1*	•	-	•	0.88	RFX 1/2"	62
•	•	-	1*	•	-	•	0.88	RF2X 1/2"	62
•	•	-	1*	•	-	•	0.88	RFXX 1/2"	62
•	•	-	3	•	-	•	0.88	RFX 7/8"	62
•	•	-	3	•	-	•	0.88	RF2X 7/8"	62
•	•	-	3	•	-	•	0.88	RFXX 7/8"	62
•	•	-	3	•	-	•	0.88	RFX 1 1/4"	62
•	•	-	3	•	-	•	0.88	RF2X 1 1/4"	62
•	•	-	3	•	-	•	0.88	RFXX 1 1/4"	62
•	•	-	3	•	-	•	0.88	RFX 1 5/8"	62
•	•	-	3	•	-	•	0.88	RF2X 1 5/8"	62
•	•	-	3	•	-	•	0.88	RFXT 7/8"	62
•	•	-	3	•	-	•	0.88	RFXT 1 1/4"	62
•	•	-	1*	•	-	•	0.88	RFFX 1/2"	62

Fire rating

1 = Flame retardant (IEC 60332-1)

3 = Fire retardant (IEC 60332-3)

* = Fire retardant class IEC 60332-3-24 is met with Mica tape between the outer conductor and the jacket

• = Primary application

Indoor coverage products

50 Ω Coaxial cable, RF



Type	RFA, RFF, RFE
Application	Antenna feeder cable for mobile phone network
Construction	Inner conductor: Copper or copper-clad aluminium wire or copper tube Insulation: Cellular PE Outer conductor: Corrugated copper tube Sheath: Polyethylene or fire retardant thermoplastics

SSTL code	Type RFA, RFF, RFE	DNKC code	Diameter of inner conductor mm	Diameter of outer conductor mm	Diameter of sheath mm	Delivery length m	Drum
Outdoor installation:							
0232105	RFA 3/8"-50	NKRFA03800	3.1	9.5	11.2	250	P6D
0232101	RFA 1/2"-50	NKRFA01200	4.8	13.9	16.0	500	P11D
0232107	RFA 7/8"-50	NKRFA07800	9.3	25.2	27.8	500	P13G
	RFA 7/8"-50 AL	NKRFA07800	9.4	25.4	28.0	500	P13G
	RFA 7/8"-50 AL BHF	NKRFA07802	9.4	25.4	28.0	500	P13G
0232108	RFA 1 1/4"-50	NKRFA11400	13.0	35.8	39.0	600	P20G
0232109	RFA 1 5/8"-50	NKRFA15800	17.5	46.3	50.0	400	P20G
	RFA 2 1/4"-50	NKRFA21400	21.2	55.9	60.0	300	P21Q
0232105	RFF 1/4"-50	NKRFF01400	1.9	6.4	7.4	250	P5C
0232101	RFF 3/8"-50	NKRFF03800	2.60	9.0	10.1	250	P5C
0232107	RFF 1/2"-50	NKRFF01200	3.55	11.9	13.5	500	P11D
	RFE 7/8"-50	NKRFE07800	9.4	24.9	27.5	500	P13G
	RFE 1 1/4"-50	NKRFE11400	13.6	35.8	39.0	600	P20G
	RFE 1 5/8"-50	NKRFE15800	17.5	46.5	50.0	400	P20G
Indoor installation:							
	RFA 3/8"-50 BHF	NKRFA03802	3.1	9.5	11.2	250	P6D
	RFA 1/2"-50 BHF	NKRFA01202	4.8	13.9	16.0	500	P11D
	RFA 7/8"-50 BHF	NKRFA07802	9.3	25.2	27.8	500	P13G
	RFA 1 1/4"-50 BHF	NKRFA11402	13.0	35.8	39.0	600	P20G
	RFA 1 5/8"-50 BHF	NKRFA15802	17.5	46.3	50.0	400	P20G
	RFA 2 1/4"-50 BHF	NKRFA21402	21.2	55.9	60.0	300	P21Q
	RFF 1/4"-50 BHF	NKRFF01402	1.9	6.4	7.4	250	P5C
	RFF 3/8"-50 BHF	NKRFF03802	2.60	9.0	10.1	250	P5C
0232116	RFF 1/2"-50 BHF	NKRFF01202	3.55	11.9	13.5	500	P11D
	RFE 7/8"-50 BHF	NKRFE07802	9.4	24.9	27.5	500	P13G
	RFE 1 1/4"-50 BHF	NKRFE11402	13.6	35.8	39.0	600	P20G
	RFE 1 5/8"-50 BHF	NKRFE15802	17.5	46.5	50.0	400	P20G

Indoor coverage products

50 Ω Coaxial antenna



Type	RFX, RF2X, RFXK, RFXT, RFFX
Application	Provides even coverage of radio signals in tunnels, mines and other underground facilities, or in other long and narrow places where it is difficult and unpractical to build good coverage using conventional antennas.
Construction	50 Ω coaxial cable with slotted outer conductor.

SSTL code	Type RFX, RF2X, RFXK, RFXT, RFFX	DNKC code	Diameter of inner conductor mm	Diameter of outer conductor mm	Diameter of sheath mm	Delivery length m	Drum
0232141	RFX 1/2"	NKRFX01202	4.80	13.9	16.0	500	P11D
	RF2X 1/2"	NKRFX01202	4.80	13.9	16.0	500	P11D
	RFXK 1/2"	NKRFXK01202	4.80	13.9	16.0	500	P11D
0232147	RFX 7/8"	NKRFX07802	9.30	25.2	27.9	500	P13G
	RF2X 7/8"	NKRFX07802	9.30	25.2	27.9	500	P13G
	RFXK 7/8"	NKRFXK07802	9.30	25.2	27.9	500	P13G
	RFX 1 1/4"	NKRFX11402	13.0	35.8	39.0	600	P20G
	RF2X 1 1/4"	NKRFX11402	13.0	35.8	39.0	600	P20G
	RFXK 1 1/4"	NKRFXK11402	13.0	35.8	39.0	600	P21Q
	RFX 1 5/8"	NKRFX15802	17.5	46.5	50.0	400	P20G
	RF2X 1 5/8"	NKRFX15802	17.5	46.5	50.0	400	P20G
	RFXT 7/8"	NKRFX07807	9.00	23.5	28.7	500	P20G
	RFXT 1 1/4"	NKRFX11407	12.8	32.8	38.8	400	P19Q
RFFX 1/2"	NKRFFX01202	3.55	11.9	13.5	500	P11D	

Indoor coverage products

50 Ω NKJ Jumper cables



Type	NKJ
Application	Jumpers are typically used to connect the feeder cable to the transmission equipment or to the antenna.
Construction	50 Ω Flexible jumper cable with soldered connectors and the injection molded body between the cable and the connector interface.

	Length 0,5 m	Length 1,0 m	Length 1,5 m	Length 2,0 m	Length 3,0 m	1. Connector	2. Connector
NKJ11	NKJ111	NKJ112	NKJ113	NKJ114	NKJ116	Male 7/16	Male 7/16
NKJ12	NKJ121	NKJ122	NKJ123	NKJ124	NKJ126	Male 7/16	Female 7/16
NKJ13	NKJ131	NKJ132	NKJ133	NKJ134	NKJ136	Male 7/16	Male N
NKJ14	NKJ141	NKJ142	NKJ143	NKJ144	NKJ146	Male 7/16	Female N
NKJ15	NKJ151	NKJ152	NKJ153	NKJ154	NKJ156	Male 7/16	Male 7/16 90°
NKJ16	NKJ161	NKJ162	NKJ163	NKJ164	NKJ166	Male 7/16	Male N 90°
NKJ22	NKJ221	NKJ222	NKJ223	NKJ224	NKJ226	Female 7/16	Female 7/16
NKJ23	NKJ231	NKJ232	NKJ233	NKJ234	NKJ236	Female 7/16	Male N
NKJ24	NKJ241	NKJ242	NKJ243	NKJ244	NKJ246	Female 7/16	Female N
NKJ25	NKJ251	NKJ252	NKJ253	NKJ254	NKJ256	Female 7/16	Male 7/16 90°
NKJ26	NKJ261	NKJ262	NKJ263	NKJ264	NKJ266	Female 7/16	Male N 90°
NKJ33	NKJ331	NKJ332	NKJ333	NKJ334	NKJ336	Male N	Male N
NKJ34	NKJ341	NKJ342	NKJ343	NKJ344	NKJ346	Male N	Female N
NKJ35	NKJ351	NKJ352	NKJ353	NKJ354	NKJ356	Male N	Male 7/16 90°
NKJ36	NKJ361	NKJ362	NKJ363	NKJ364	NKJ366	Male N	Male N 90°
NKJ44	NKJ441	NKJ442	NKJ443	NKJ444	NKJ446	Female N	Female N
NKJ45	NKJ451	NKJ452	NKJ453	NKJ454	NKJ456	Female N	Male 7/16 90°
NKJ46	NKJ461	NKJ462	NKJ463	NKJ464	NKJ466	Female N	Male N 90°

Bending radius

Indoor coverage products

50 Ω Coaxial cable, RF

	Final bending mm	Repeated bending mm
RFA 3/8"-50	50	95
RFA 1/2"-50	70	120
RFA 7/8"-50	120	240
RFA 7/8"-50 AL	120	240
RFA 1 1/4"-50	200	350
RFA 1 5/8"-50	200	400
RFA 2 1/4"-50	240	500
RFF 1/4"-50	12.5	25
RFF 3/8"-50	13	25
RFF 1/2"-50	15	30
RFE 7/8"-50	90	120
RFE 1 1/4"-50	120	220
RFE 1 5/8"-50	200	350
RFA 3/8"-50 BHF	50	95
RFA 1/2"-50 BHF	70	120
RFA 7/8"-50 BHF	120	250
RFA 7/8"-50 AL BHF	120	240
RFA 1 1/4"-50 BHF	200	350
RFA 1 5/8"-50 BHF	250	500
RFA 2 1/4"-50 BHF	270	550
RFF 1/4"-50 BHF	12.5	25
RFF 3/8"-50 BHF	13	25
RFF 1/2"-50 BHF	15	30
RFE 7/8"-50 BHF	90	120
RFE 1 1/4"-50 BHF	120	220
RFE 1 5/8"-50 BHF	200	350

50 Ω Coaxial antenna, RFX

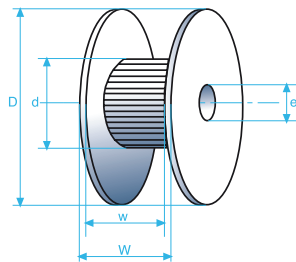
	Final bending mm
RFX 1/2"	120
RF2X 1/2"	120
RFKX 1/2"	115
RFX 7/8"	240
RF2X 7/8"	240
RFKX 7/8"	240
RFX 1 1/4"	350
RF2X 1 1/4"	350
RFKX 1 1/4"	350
RFX 1 5/8"	400
RF2X 1 5/8"	400
RFX 7/8"	400
RFXT 1 1/4"	450
RFFX 1/2"	25

50 Ω NKJ Jumper cables

	Final bending mm	Repeated bending mm
NKJ11	15	30
NKJ12	15	30
NKJ13	15	30
NKJ14	15	30
NKJ15	15	30
NKJ16	15	30
NKJ22	15	30
NKJ23	15	30
NKJ24	15	30
NKJ25	15	30
NKJ26	15	30
NKJ33	15	30
NKJ34	15	30
NKJ35	15	30
NKJ36	15	30
NKJ44	15	30
NKJ45	15	30
NKJ46	15	30

Drum sizes

Cable type	Drum type	Code	Standard length m	Outer diameter cm (D)	Barrel diameter cm (d)	Outer width cm (W)	Net winding width cm (w)	Shaft hole mm (e)	Drum weight kg
50 Ω Coaxial cable									
RFA 3/8"-50	P6D	NKDP6D	250	60	33	51	43	82	14
RFA 1/2"-50	P11D	NKDP11D	500	114	70	55	43	82	43
RFA 7/8"-50	P13G	NKDP13G	500	134	75	74	61	82	69
RFA 7/8"-50	P16G	NKDP16G	1000	164	80	73.5	67	82	71
RFA 7/8"-50 AL	P13G	NKDP13G	500	134	75	70	61	82	69
RFA 7/8"-50 AL BHF	P13G	NKDP13G	500	134	75	70	61	82	69
RFA 1 1/4"-50	P20G	NKDP20G	600	204	120	74	61	82	157
RFA 1 5/8"-50	P20G	NKDP20G	400	204	120	74	61	82	157
RFA 2 1/4"-50	P21Q	NKDP21Q	300	214	150	118	97	82	205
RFF 1/4"-50	P5C	NKDP5C	250	54	25	50	40	82	10
RFF 3/8"-50	P5C	NKDP5C	250	54	25	50	40	82	10
RFF 1/2"-50	P11D	NKDP11D	500	114	70	55	43	82	43
RFE 7/8"-50	P13G	NKDP13G	500	134	75	74	61	82	68
RFE 1 1/4"-50	P20G	NKDP20G	600	204	120	74	61	82	157
RFE 1 5/8"-50	P20G	NKDP20G	400	204	120	74	61	82	157
50 Ω Coaxial antenna									
RFX 1/2"-50	P11D	NKDP11D	500	114	70	55	43	82	43
RF2X 1/2"-50	P11D	NKDP11D	500	114	70	55	43	82	43
RFXK 1/2"-50	P11D	NKDP11D	500	114	70	55	43	82	43
RFX 7/8"-50	P13G	NKDP13G	500	134	75	74	61	82	68
RF2X 7/8"-50	P13G	NKDP13G	500	134	75	74	61	82	68
RFXK 7/8"-50	P13G	NKDP13G	500	134	75	74	61	82	68
RFX 1 1/4"-50	P20G	NKDP20G	400	204	120	74	61	82	157
RF2X 1 1/4"-50	P20G	NKDP20G	600	204	120	74	61	82	157
RFXK 1 1/4"-50	P20G	NKDP20G	400	204	120	74	61	82	157
RFX 1 5/8"-50	P20G	NKDP20G	600	204	120	74	61	82	157
RF2X 1 5/8"-50	P20G	NKDP20G	400	204	120	74	61	82	157
RFXT 7/8"-50	P20G	NKDP20G	400	204	120	74	61	82	157
RFXT 1 1/4"-50	P19Q	NKDP19Q	500	194	130	106	99	82	141
RFFX 1/2"-50	P11D	NKDP11D	500	114	70	55	43	82	43



The maximum cable lengths on the K drums (m)

Drum type	K6	K7	K8	K9	K10	K11	K12	K14
Barrel diameter (mm)	250	325	375	425	500	575	675	800
Flange diameter (mm)	600	700	800	900	1000	1100	1200	1400
Net winding width (mm)	400	500	500	550	600	650	850	850
Free space (mm)	30	30	30	30	30	40	40	40
Carrying capacity (kg)	350	500	590	730	980	980	980	980
Centre hole (mm)	75	75	75	75	106	106	106	106

Select cable drum so that the barrel diameter is at least 40 times the cable diameter.

Cable diameter mm	K6	K7	K8	K9	K10	K11	K12	K14
5	2878	4674	6276	8926	11943	14286	21031	
6	1960	3260	4341	6113	8097	10005	14701	20152
7	1396	2350	3230	4462	5935	7096	10511	14894
8	1114	1765	2361	3337	4554	5434	8011	11253
9	871	1404	1917	2785	3563	4294	6314	8698
10	686	1119	1569	2159	2985	3571	5257	7359
11	577	948	1246	1761	2442	2947	4330	5858
12	490	805	1072	1511	2024	2415	3526	4858
13	407	689	930	1227	1637	2125	3110	4329
14	343	579	796	1065	1405	1701	2502	3569
15	283	492	690	911	1249	1484	2179	3155
16	278	411	590	790	1069	1279	1911	2813
17	223	391	496	758	928	1235	1829	2485
18	217	318	470	645	890	1073	1578	2174
19	176	311	401	540	759	921	1344	1881
20	171	255	392	530	746	879	1299	1818
21	134	238	313	451	624	739	1112	1586
22	129	231	304	440	610	724	1068	1368
23	124	183	247	410	519	619	897	1310
24	118	176	238	341	506	603	881	1143
25		179	241	345	422	506	747	1121
26		172	232	280	409	491	710	1065
27		130	182	270	395	477	694	914
28		124	174	259	321	389	574	892
29		125	175	248	309	376	559	752
30		119	167	205	312	362	544	731
31		120	133	195	299	348	529	711
32		85	126	197	234	289	424	690
33			127	187	236	276	411	566
34			119	189	225	278	414	570
35			120	141	227	266	400	551
36			113	142	215	268	386	532
37			85	134	172	255	371	512
38				135	162	204	298	426
39				136	163	193	286	409
40				127	164	194	288	411
41				128	155	183	276	394
42				96	156	184	278	396
43				90	146	186	265	378
44					147	174	267	304
45					111	132	193	289
46					111	133	194	291
47					103	124	195	292
48					104	125	185	277
49					104	125	186	279

The maximum cable lengths on the K drums (m)

Drum type	K16	K18	K20	K21	K22	K24	K26	K28
Barrel diameter (mm)	950	1100	1300	1300	1400	1400	1500	1500
Flange diameter (mm)	1600	1800	2000	2100	2200	2400	2600	2800
Net winding width (mm)	850	850	1000	1000	1000	1000	1200	1350
Free space (mm)	40	40	50	50	50	50	60	70
Carrying capacity (kg)	2300	3000	3000	3500	4000	4500	6800	8800
Centre hole (mm)	106	132	132	132	132	132	132	132

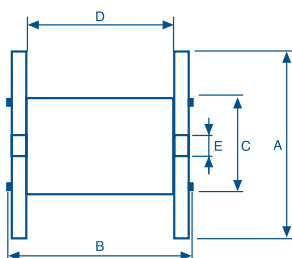
Select cable drum so that the barrel diameter is at least 40 times the cable diameter.

Cable diameter mm	K16	K18	K20	K21	K22	K24	K26	K28
5								
6								
7	18702							
8	14336	17766						
9	11251	14116	18377					
10	9196	11672	15079	18142	19242			
11	7408	9536	12191	14383	15259	20809		
12	6201	7696	10430	12461	13218	17790		
13	5244	6570	8780	10168	10789	14953	21184	
14	4636	5838	7466	9200	9758	13190	18599	
15	4128	4926	6635	7844	8321	11507	15924	22240
16	3458	4441	5567	6691	7100	10078	13995	19722
17	3071	3975	4922	5976	6340	8726	12167	17534
18	2702	3529	4390	5390	5718	7991	11118	15652
19	2560	3105	3883	4828	5122	6902	9772	13851
20	2272	2770	3769	4379	4646	6358	8957	12696
21	1997	2452	3295	3865	4101	5708	8167	11221
22	1739	2353	2914	3456	3668	5202	7404	10323
23	1663	2056	2808	3333	3535	4714	6802	9452
24	1468	1831	2454	2950	3130	4247	6220	8765
25	1439	1794	2412	2902	3078	4184	5658	8096
26	1216	1532	2082	2542	2697	3738	5119	7303
27	1188	1496	2041	2265	2404	3407	4941	6818
28	1159	1459	1737	2158	2290	3251	4432	6212
29	992	1266	1698	2112	2240	2940	4047	6011
30	965	1231	1658	1858	1972	2876	3981	5560
31	938	1196	1428	1814	1925	2581	3518	5004
32	788	1020	1391	1577	1675	2519	3452	4930
33	762	987	1354	1536	1630	2240	3106	4402
34	767	993	1145	1494	1585	2181	3041	4328
35	741	832	1111	1451	1539	1921	2975	3934
36	607	802	1077	1239	1316	1864	2652	3860
37	584	771	1083	1246	1322	1876	2588	3486
38	588	776	895	1207	1280	1633	2285	3414
39	564	634	864	1012	1075	1580	2225	3059
40	568	637	868	1017	1080	1589	2239	2989
41	450	610	837	981	1042	1364	1955	2919
42	453	613	806	945	1003	1315	1898	2673
43	432	585	675	950	1008	1322	1840	2606
44	434	588	648	777	826	1271	1851	2538
45	413	464	651	781	829	1278	1592	2307
46	415	466	623	749	795	1077	1600	2243
47	418	468	626	752	798	1082	1547	2178
48	317	444	598	719	763	1035	1555	2191
49	319	446	600	722	766	1041	1500	1902

The maximum cable lengths on the K drums (m)

Cable diameter mm	Drum type												
	5C/m	6C/m	7E/m	8E/m	9F/m	11G/m	13G/m	15G/m	16L/m	18M/m	20P/m	22P/m	
3	4500	7850											
4	2460	4410	7250	9790									
5	1570	2790	4710	6220	9000								
6	1120	1950	3210	4400	6130								
7	780	1410	2360	3190	4560								
8	580	1080	1800	2370	3480	5720	7950						
9	480	840	1460	1950	2770	4420	6280						
10	390	660	1170	1490	2170	3720	5090	6930	9360				
11	320	570	930	1300	1790	2960	4210	5520	7820	8260			
12	260	480	800	1050	1470	2500	3530	4785	6490	7020			
13	200	410	680	910	1290	2200	3020	3950	5610	5950			
14	190	350	580	790	1130	1800	2590	3465	4850	5030	8420		
15	150	290	500	680	990	1620	2260	3040	4150	4480	7310	8900	
16	140	240	420	590	870	1410	1990	2565	3750	4000	6320	7780	
17	110	230	400	500	750	1250	1750	2310	3190	3300	5470	6770	
18	100	190	340	480	650	1100	1570	2070	2870	2960	4930	6170	
19	100	180	320	410	560	960	1410	1840	2590	2830	4460	5630	
20		150	270	340	540	930	1270	1685	2330	2510	4040	4860	
21		140	260	330	460	800	1150	1480	2080	2220	3650	4410	
22		140	210	320	440	710	1050	1420	1860	1960	3290	4010	
23		200	210	270	370	680	960	1290	1800	1890	2960	3630	
24			160	260	360	590	880	1155	1610	1670	2870	3520	
25			160	210	350	570	810	1110	1430	1600	2580	3190	
26			150	210	290	540	750	990	1390	1400	2310	2880	
27			150	200	290	470	690	940	1230	1360	2240	2600	
28			110	160	230	450	650	830	1200	1180	2000	2520	
29			110	160	230	430	600	790	1050	1140	1950	2260	
30			110	150	220	380	560	725	1030	1110	1730	2210	
31			110	150	220	360	530	690	890	950	1690	1970	
32			100	150	170	345	500	630	870	930	1490	1930	
33				110	170	300	470	595	860	900	1450	1720	
34				110	170	315	440	560	740	770	1420	1680	
35				110	160	305	410	555	720	750	1250	1640	
36				100	160	280	390	480	710	730	1220	1450	
37				100	120	270	370	470	610	720	1190	1420	
38					120	240	350	445	610	600	1040	1390	
39					120	230	330	420	580	580	1020	1220	
40					120	225	320	410	570	570	1000	1200	
41					110	210	300	405	560	560	980	1180	
42					110	200	280	385	480	550	840	1030	
43						195	270	370	470	450	830	1010	
44						175	260	355	460	440	810	990	
45						170	250	320	450	430	800	970	
46						165	240	325	380	420	680	840	
47						160	230	310	370	420	670	820	
48						150	220	290	360	410	660	810	
49						145	210	280	360	400	650	800	
50						140	200	275	350	320	640	790	
51						135	190	270	350	310	630	670	
52							180	250	280	310	520	660	
53							180	240	280	300	510	650	
54							170	230	270	300	510	640	
55							170	220	270	300	500	630	
56							160	210	270	290	490	620	
57							150	210	260	290	490	520	
58							150	200	260	280	400	510	
59							140	195	260	210	390	510	
60							140	190	200	210	390	500	

Cable drum dimensions and weights



Drum type	SSTL code	Dimensions mm					Drum weight kg
		A	B	C	D	E	
K5	9999705	500	368	200	300	75	9
K6	9999706	600	468	250	400	75	12
K7	9999707	700	580	325	500	75	20
K8	9999708	800	580	375	500	75	25
K9	9999709	900	630	425	550	75	34
K10	9999710	1000	712	500	600	75	54
K11	9999711	1100	762	575	650	106	55
K12	9999712	1200	982	675	850	106	90
K14	9999714	1400	982	800	850	106	115
K16	9999716	1600	1018	950	850	106	195
K18	9999718	1800	1075	1100	850	132	230
K20	9999720	2000	1190	1300	1000	132	340
K21	9999721	2100	1190	1300	1000	132	360
K22	9999722	2200	1190	1400	1000	132	410
K24	9999724	2400	1205	1400	1000	132	450
K26	9999726	2600	1448	1500	1200	132	910
K28	9999728	2800	1650	1500	1350	132	1190
K30	9999730	3000	1800	1500	1500	132	1510
5C	9999405	500	500	250	400	55	10
6C	9999406	600	500	250	400	55	16
7E	9999407	700	610	325	500	55	20
8E	9999408	800	610	375	500	55	26
9F	9999409	900	660	425	550	82	40
9FV	9999410	900	675	425	550	82	50
11G	9999459	1100	725	500	600	82	70
11GV	9999460	1100	755	500	600	82	85
13G	9999463	1300	760	600	600	82	105
15G	9999465	1500	760	700	600	82	150
16L	9999416	1600	970	800	800	82	185
18M	9999418	1800	1025	1100	850	82	260
18P	9999419	1800	1135	1100	960	82	265
20P	9999421	2000	1155	1100	960	82	350
21P	9999424	2100	1155	1100	960	82	390
22P	9999422	2200	1155	1200	960	82	445
26U	9999426	2600	1455	1500	1200	123	805
28W	9999428	2800	1610	1500	1300	123	1050
30Y	9999430	3000	1810	2200	1500	123	1275
32Z	9999432	3200	1970	2400	1600	132	2000
OPG16	9999016	1600	1125	800	965	82	259
OPG18	9999018	1800	1125	900	965	82	314
OPG20	9999020	2000	1125	900	945	82	421



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02/2009