

Cables & Connectors

High Screening and Easy Installation





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Kathrein Coaxial Cables

CE Marking and Declaration of Performance According to Construction Products Regulation 305/2011

Communication cables that are permanently installed in structures are covered by the European Regulation 305/2011 (Construction Products Regulation, CPR).

The publication of standard EN 50575:2014 in the Official Journal of the European Union laid the foundation for the implementation of the CPR by all market participants. This standard describes "Power Cables and Lines, Control and

Communication Cables - Cables and Wires for general applications in structures relating to fire performance requirements". Since 1 July 2017, cable manufacturers must have their products tested and certified by a notified European testing institute and provide them with a CE marking and a corresponding declaration of performance.

	Safety requirements in buildings			
Flame propagation/ heat development	Smoke development/ smoke density	Burning drops	Acid development/ corrosiveness	
B2ca	s1	d1	a1	Very high
Сса	s1	d1	a1	High
Dca	s2	d2	a1	Medium
Eca	-	-	-	Low
Fca	-	-	-	None

Proposal of the ZVEI for the fire classes to be used for cables under the Construction Products Regulation

Cables of the fire classes Aca and B1ca are currently not required or relevant in Germany.

High-quality Coaxial Cable LCD 130 A+ With very high fire class B2ca

The new LCD 130 A+ coaxial cable (fire class B2ca) has a screening of typically 130 dB and extremely low attenuation values. It can therefore be used for emergency exits, hospitals, schools, kindergartens, etc. even over longer distances without intermediate amplifiers.



Cable types LCD 111 A+, LCD 115 A+, LCD 120 A+ and LCD 130 A+ are approved by Vodafone Kabel Deutschland and certified by dibkom (German Institute for Broadband Communication).

► Kathrein Coaxial Cables Compliant with CPR 305/2011 C € ▲ With high screening

Туре	Fire classes EN 50575	
LCD 89	Eca	
LCD 90	Eca	
LCD 111 A+	Eca	
LCD 115 A+	Cca s1a d1 a1	
LCD 120 A+	Eca	
LCD 130 A+	B2ca s1a d0 a1	
LCM 14 A+	Dca s1a d1 a1	
LCM 17 A+	Fca	
LCM 33	Earth cable/Fca	
LCM 50	Earth cable/Fca	
LCM 96	Earth cable/Fca	

Measurement Diagram LCD 120 A+

Screening attenuation typ. 130 dB



Coaxial Connectors with High Screening and Easy Installation Properties

Гуре	Order No.	Description	
EMK 01	273167	F-type screw-on connector for cables LCD 90, LCD 120 A+, LCD 111 A+, LCD 115 A+, LCD 130 A+; screening factor > 90 dB; screening class A	-
EMK 02	21210014	F-type quick screw-on connector for cables LCD 90, LCD 120 A+, LCD 111 A+, LCD 115 A+, LCD 130 A+; screening factor > 90 dB; screening class A	
EMK 104	273195	F-type cable fitting for cable LCM 33; for outdoor mounting; screening factor 90 dB; screening class A	100
EMK 105	273196	F-type cable fitting for cable LCM 50; for outdoor mounting; screening factor 90 dB; screening class A	100
EMK 106	273197	F-type cable fitting for cable LCM 96; for outdoor mounting; screening factor 90 dB; screening class A	10.
EMK 11	273263	F-type crimpable connector for cables LCD 90, LCD 120 A+, LCD 111 A+, LCD 115 A+, LCD 130 A+; screening factor > 90 dB; screening class A	01-11
EMK 12	21210018	F-type compression connector for coaxial cables LCD 90, LCD 120 A+, LCD 111 A+, LCD 115 A+, LCD 130 A+; screening factor > 120/105 dB; screening class A+	
EMK 15	273276	F-type screw-on connector for cable LCD 89; screening factor > 90 dB; screening class A	OF THE
EMK 17	273291	F-type screw-on connector for cables LCM 14 A+, LCM 17 A+; screening factor > 90 dB; screening class A	1-1
EMK 18	21210013	F-type crimpable connector for cables LCM 14 A+, LCM 17 A+; screening factor > 90 dB; screening class A	OTT THE
EMK 19	21210019	F-type compression connector for cables LCM 14 A+, LCM 17 A+; screening factor > 120/105 dB; screening class A	
EMK 20 Plus	212500023	Self-install F-type connector for cables LCD 90, LCD 120 A+, LCD 111 A+, LCD 115 A+, LCD 130 A+; screening factor > 120/105 dB; screening class A+	(F)
EMK 21	273120	IEC connector for cables with Ø = 4–7 mm: LCD 89, LCD 90, LCD 120 A+, LCD 111 A+, LCD 115 A+, LCD 130 A+; screening factor VHF > 75 dB, UHF > 65 dB	-
EMK 62	273123	IEC socket for cables with Ø = 4–7 mm: LCD 89, LCD 90, LCD 120 A+, LCD 111 A+, LCD 115 A+, LCD 130 A+; screening factor VHF > 75 dB, UHF > 65 dB	1
EMK 63	21210030	IEC compression connector for coaxial cables LCD 90, LCD 120 A+, LCD 111 A+, LCD 115 A+, LCD 130 A+; screening factor > 85 dB; screening class A	TT
EMK 64	21210031	IEC compression socket for coaxial cables LCD 90, LCD 120 A+, LCD 111 A+, LCD 115 A+, LCD 130 A+; screening factor > 85 dB: screening class A	EFF

Connector Installation Sets for Professional, Quick Installation

ZAH 12 | 21410008

Compression connector set including:

- Plastic box
- 100 compression connectors EMK 12
- Compression tool ZAW 13 (suitable for EMK 12/EMK 19)
- Cable stripper RG 6/59

ZAH 15 | 21410013

Self-install connector set including:

- Plastic box
- 100 self-install connectors EMK 20 Plus
- Cable stripper ZAW 16



Features and Benefits of Kathrein Coaxial Cables

- The cables meet the electrical requirements of the cable companies (except LCD 89 and 90)
- The CE Declarations of Conformity comply with the following standards and directives: EN 50575, EN 60728-11, EN 50581, EN 50117-2-3/-2-4, RoHS

		LCD 89	LCD 90	LCD 111 A+	LCD 115 A+
	100 m (one-way coil)	21510004	21510015	21510025	21510028
	250 m (dispenser box)	×	×	×	×
Order no.	250 m (one-way coil)	×	×	21510026	×
	500 m (one-way drum)	×	21510017	21510027	21510029
	Special lengths on request	×	×	×	×
	Attenuation	Low	Low	Very low	Very low
	Screening	Good	Good	Extremely good	Extremely good
- .	Cost per metre	Low	Very low	Low	Low
Features	Fire classification	Low	Low	Low	High
	Diameter	Extra thin/flex.	Standard	Standard	Standard
	UV resistant	\checkmark	\checkmark	\checkmark	✓
	Inside buildings	\checkmark	\checkmark	\checkmark	\checkmark
Method of laying	Outside buildings	×	×	×	\checkmark
	Underground	×	×	×	×
D'	Inner conductor	0.75 mm Cu	1.0 mm Staku	1.13 mm Cu	1.13 mm Cu
Dimensions	Outer sheath	5 mm	6.8 mm	6.9 mm	6.9 mm
Fire classification	CPR 305/2011	Eca	Eca	Eca	Cca s1a d1 a1
Outer sheath	Material	PVC white	PVC white	PVC white	Halogen free/black
Screening class		А	А	A++	A++
Screening attenu. typ./100 m	5–2400 MHz	90 dB	90 dB	130 dB	130 dB
	50 MHz	6.3 dB	4.3 dB	4.1 dB	4.1 dB
	450 MHz	18.3 dB	13.4 dB	12.0 dB	12.0 dB
Attenuation	862 MHz	26.1 dB	18.4 dB	17.1 dB	17.1 dB
typ./100 m	1000 MHz	28.0 dB	20.1 dB	18.5 dB	18.5 dB
	2150 MHz	43.1 dB	30.5 dB	28.4 dB	28.4 dB
	2400 MHz	45.0 dB	32.6 dB	29.9 dB	29.9 dB
Return loss. typ./100 m	5–2400 MHz	≥ 20–16 dB	≥ 26–20 dB	≥ 26–18 dB	≥ 26–18 dB
Coupling resistance DOCSIS 3.1 return path	5–30 MHz	< 5 mΩ/m	<10 mΩ/m	≤ 0.9 mΩ/m DOCSIS 3.x	≤ 0.9 mΩ/m DOCSIS 3.x
	Threaded	EMK 15	EMK 01/ EMK 02/ EMK 21/EMK 62	EMK 01/ EMK 02/ EMK 21/EMK 62	EMK 01/ EMK 02/ EMK 21/EMK 62
	Crimpable F male	×	EMK 11	EMK 11	EMK 11
Suitable Connectors	Compress. F male	×	EMK 12	EMK 12	EMK 12
	Self-install F male	×	EMK 20 Plus	EMK 20 Plus	EMK 20 Plus
	Compress. IEC male	×	EMK 63	EMK 63	EMK 63
	Compress. IEC female	×	EMK 64	EMK 64	EMK 64

CEA

- The cables comply with the Construction Products
 The cables have metre and jacket markings (manufacturer's name) Regulations)

				ΦĨ	ΦĨ	ΦĨ
LCD 120 A+	LCD 130 A+	LCM 14 A+	LCM 17 A+	LCM 33	LCM 50	LCM 96
21510036	21510039	21510030	21510034	×	×	×
21510043	21510042	×	×	×	×	×
×	×	215500011	215500012	×	×	×
21510038	21510041	21510031	21510035	271623	271622	271624
×	×	×	×	24510061	24510062	24510063
Low	Very low	Very low	Very low	Extremely low	Extremely low	Extremely low
Extremely good	Extremely good	Extremely good	Extremely good	Extremely good	Extremely good	Extremely good
Very low	Low	Low	Low	Average	Average	Average
Low	Very high	Medium	Low	n/a	n/a	n/a
Standard	Standard	Large	Large	1 qKx broadb. cable	1 nKx broadb. cable	1 iKx broadb. cable
\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
\checkmark	\checkmark	\checkmark	×	×	×	×
×	×	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
×	×	×	\checkmark	\checkmark	\checkmark	\checkmark
1.02 mm Cu	1.13 mm Cu	1.63 mm Cu	1.63 mm Cu	3.3 mm Cu	2.2 mm Cu	1.1 mm Cu
6.8 mm	6.9 mm	10.4 mm	10.4 mm	17 mm	12.5 mm	11.0 mm
Eca	B2ca s1a d0 a1	Dca s1a d1 a1	Fca	Earth cable/Fca	Earth cable/Fca	Earth cable/Fca
PVC white	Halogen free/white	Halogen free/black	PE black	PE black	PE black	PE black
A+	A++	A+	A+	A++	A++	A++
130 dB	130 dB	120 dB	120 dB	120 dB	120 dB	115 dB
4.3 dB	4.1 dB	2.8 dB	2.8 dB	1.2 dB	1.8 dB	3.6 dB
12.9 dB	12.0 dB	8.6 dB	8.6 dB	4.0 dB	6.0 dB	11.5 dB
18.2 dB	17.1 dB	12.2 dB	12.2 dB	5.5 dB	8.7 dB	16.0 dB
19.7 dB	18.5 dB	13.1 dB	13.1 dB	7.0 dB	10.0 dB	18.3 dB
29.9 dB	28.4 dB	20.3 dB	20.3 dB	10.6 dB	16.2 dB	29.2 dB
31.8 dB	29.9 dB	21.8 dB	21.8 dB	11.5 dB	17.7 dB	31.7 dB
≥ 26–18 dB	≥ 26–18 dB	≥ 26–20 dB	≥ 26–20 dB	≥ 28–20 dB	≥ 28–20 dB	≥ 28–20 dB
\leq 2.5 m Ω /m	≤ 0.9 mΩ/m DOCSIS 3.x	\leq 2.5 m Ω /m	\leq 2.5 m Ω /m	≤ 0.1 mΩ/m DOCSIS 3.x	≤ 0.1 mΩ/m DOCSIS 3.x	≤ 0.3 mΩ/m DOCSIS 3.x
EMK 01/ EMK 02/ EMK 21/EMK 62	EMK 01/ EMK 02/ EMK 21/EMK 62	EMK 17	EMK 17	EMK 104	EMK 105	EMK 106
EMK 11	EMK 11	EMK 18	EMK 18	×	×	×
EMK 12	EMK 12	EMK 19	EMK 19	×	×	×
EMK 20 Plus	EMK 20 Plus	×	×	×	×	×
EMK 63	EMK 63	×	×	×	×	×
EMK 64	EMK 64	×	×	×	×	×

Connecting Cables

CEA

Туре	Order No.	Description	
ETG 15	274779	Receiver connection cable 1.5 m; F-pin/F-pin; class A	
ETG 30	274778	Receiver connection cable 3.0 m; F-pin; class A	36
ETF 300/S	2040000011	Connecting cable 0.3 m; shielding 105 dB; class A+; F-type threaded	
ETF 400/S	2040000012	Connecting cable 0.4 m; shielding 105 dB; class A+; F-type threaded	00
ETF 600/S	2040000013	Connecting cable 0.6 m; shielding 105 dB; class A+; F-type threaded	(h) (h)
ETF 800/S	2040000014	Connecting cable 0.8 m; shielding 105 dB; class A+; F-type threaded	
ETF 300/Q	2040000007	Connecting cable 0.3 m; shielding 105 dB; class A+; F-type quick connector	
ETF 400/Q	2040000008	Connecting cable 0.4 m; shielding 105 dB; class A+; F-type quick connector	1
ETF 600/Q	2040000009	Connecting cable 0.6 m; shielding 105 dB; class A+; F-type quick connector	0-0-0-0
ETF 800/Q	2040000010	Connecting cable 0.8 m; shielding 105 dB; class A+; F-type quick connector	
ETH 1500	20410042	Connecting cable 1.5 m; shielding 105 dB; class A+; IEC (socket) IEC (pin) straight	
ETH 3000	20410046	Connecting cable 3.0 m; shielding 105 dB; class A+; IEC (socket) IEC (pin) straight	
ETH 5000	20410050	Connecting cable 5.0 m; shielding 105 dB; class A+; IEC (socket) IEC (pin) straight	
EVL 165	20410005	Connecting cable F-type quick; length 165 mm; completely assembled with 2 straight F-type quick connectors; cable and connectors in black; class A	\mathbf{O}
EVL 340	20410030	Connecting cable F-type quick; length 340 mm; completely assembled with 2 straight F-type quick connectors; cable and connectors in black; class A	
EVL 980	20410031	Connecting cable F-type quick; length 980 mm; completely assembled with 2 straight F-type quick connectors: cable and connectors in black; class A	8

Kathrein Hybrid and Network Cables

Designs

When designing network cables in general the distinction is made between simplex and duplex cables. In our case a hybrid cable consists of a combination of a network cable and a coaxial cable.

Simplex:	8 cores (4 pairs) => 4×2×AWG23/1 S/FTP (PIMF)
Duplex:	16 cores (8 pairs) => 2×4×2×AWG23/1 S/FTP
Hybrid:	8 cores (4 pairs) => 4×2×AWG24/1 U/FTP (PIMF) + coaxial cable





Hybrid

Designations by AWG

AWG is a standard coding for wire diameters in electrical technology. In particular it is used for the diameters of conductive copper wires and copper cross sections, disregarding the insulation or the sheathing. It originated with inch sizes in the USA, but the AWG designation is also used in Europe.

AWG stands for American Wire Gauge. The AWG number arises from the manufacturing process and describes the number of drawing operations for wire drawing. AWG23 for instance means that there were 23 successive drawing operations before the AWG23 diameter was achieved.

Table for conversion of AWG into metric, mm and mm²

AWG	d (mm)	A (mm²)	R (Ohm/km)	Metric (mm ²)
22	0.6438	0.326	54.7	0.34
23	0.5733	0.258	67	LCL 110
24	0.5106	0.205	87	LCH 120
25	0.4547	0.162	110	-

Widely-used Types of Twisted-pair Cables

Category	Bandwidth	Туре	Class	Examples of applications
Cat 5	100 MHz	UTP	D	100BASE-TX and 1000BASE-T or SONET
Cat 6/6A	250/500 MHz	UTP or STP	E	1000BASE-T, 10GBASE-T or 155-Mbit-ATM and 622-Mbit-ATM
Cat 7/7A	600/1000 (1200) MHz	S/FTP – U/FTP	F or FA	10GBASE-T
Cat 8	1600/2000 MHz	S/FTP	G	40GBASE-T and 100GBASE-T

Designation System for Twisted-pair Cables According to ISO/IEC 11801

Overall screening, conductor pair screening and type of stranding

Overall screening

- U = no screen (unscreened)
- F = foil screen (coated plastic foil)
- S = braided screen (braided wire)
- SF = braided screen and foil screen

Type of stranding

TP = Twisted Pair (as a rule)	QP = Quad Pa
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Conductor pair screening

- U = no screen (unscreened)
- F = foil screen (coated plastic foil)
- S = braided screen (braided wire)

Overview of twisted pair cables

Twisted pair cables	(TP)	U/UTP	S/UTP	U/FTP	S/FTP	F/FTP	SF/FTP
Overall correct	Wire braiding (S)	-	yes	-	yes	-	yes
Overall Screen	Foil (F)	-	-	-	-	yes	yes
Conductor pair	Wire braiding (S)	-	-	-	-	-	-
screen	Foil (F)	-	-	yes	yes	yes	yes

Network Cable LCL 110

LCL 110/250 m	215500001
LCL 110/500 m	215500003
LCL 110/1000 m	215500004





- Network cable Cat 7A S/FTP
- Metre marking
- Complies with: ISO/IEC 11801 2nd ed., IEC 61156-5, EN 50173-1, EN 50288-9-1
- Construction Products Regulation 305/2011, EN 50575
 Fire classification: Cca s1a,d1,a1
- Halogen-free
- Suitable for installation in the home
- Available in 250 m, 500 m and 1000 m lengths
- Compatible RJ45 network connector: EML 12 (order no.: 212500001), field configurable without tools





Bare copper conductor AWG23

Insulation of a special PE mixture, colour code: TIA 568 70°C, EN 50290-2-23

Cable pairs screened with plastic-coated aluminium foil, 100% coverage

Cable screened with braided tinned copper wires

LSZH/LS0H – RAL 2003 orange, Ø 7.7 mm 70°C, EN 50290-2-27

Technical data

Type Order no.			LCL 110/250m 215500001	LCL 110/500m 215500003	LCL 110/1000m 215500004
Length		m	250 500 1000		1000
Packaging			One-way reel One-way drum One-way drum		One-way drum
Inner conductor AWG23		mm	8 × 0.259		
Insulation		mm	8 × 0.573		
Outer conductor			Al/PET foil – CuSn mesh		
External sheathing			LSZH/LSOH – RAL 2003 orange, 7.7 mm		
Bending radius		mm	> 31		
Attenuation at	1 MHz 4 MHz 10 MHz 200 MHz 250 MHz 500 MHz 600 MHz 800 MHz 1000 MHz 1200 MHz	dB/100 m	1.9 3.5 5.4 17.4 24.9 27.8 40.1 43.8 50.1 59.0 64.0		
Return loss 862–1000 MHz	862–1000 MHz dB ≥ 23				
Copper content ¹) kg/km 25.4					
Maximum permissible tensile force N		Ν	120		
Permissible ambient temperature °C		-20 to +60			
CPR 305/2011 – Fire classification			Euro classification Cca s1a d1 a1		
Installation location			Indoors		
Weight		kg/100 m	6.3		

 $^{\scriptscriptstyle 1)}\,\text{DEL}$ quotation, copper base €150/100 kg (copper surcharge in €/km)

Hybrid Cable LCH 120

LCH 120/100 m215500002LCH 120/250 m215500005

Hybrid network and coaxial cable

• Cat 7 U/FTP and coaxial cable, screening class A+

CE

- Complies with: EN 50117, IEC 61156
- Metre marking
- Construction Products Regulation 305/2011, EN 50575
 Fire classification: Eca
- Halogen-free
- Suitable for installation in the home
- Available in 100 m and 250 m lengths
- Compatible RJ45 network connector: EML 12 (order no.: 212500001), field configurable without tools





Bare copper conductor AWG24

Insulation of a special PE mixture, colour code: TIA 568, 70°C, EN 50290-2-23

Cable pairs screened with plasticcoated aluminium foil 100% coverage and with braided tinned copper wires

LSZH – RAL 6010 green, Ø 6.5 ± 0.20 × 13.00 ± 0.40 mm, 70°C, EN 50290-2-27 coax side: Ø 5.5 ± 0.20 mm

Bare copper conductor, Ø 0.50 \pm 0.01 mm Insulation of a special PE mixture, Ø 3.50 \pm 0.10 mm 70°C, EN 50290-2-23 Plastic-coated aluminium foil, 100% coverage Cable screened with braided tinned copper wires

Technical data

Type Order no.			LCH 120/100 m 215500002	LCH 120/250 m 215500005	
Length		m	100	250	
Packaging			One-way reel		
Inner conductor Cat 7 AWG	Inner conductor Cat 7 AWG24 mm		8 × 0.5/U/F24		
Insulation Cat 7			Plastic coated aluminium 100%		
Coaxial outer conductor			Al/PET foil – CuSn mesh		
External sheathing			LSZH/LSOH – RAL 6018 green, 6.5 mm and 6 mm		
Bending radius		mm	> 65		
Attenuation for (Cat 7)	10 MHz 100 MHz 250 MHz 500 MHz 600 MHz	dB/100 m	6. 21 35 49 58	3 .3 .7 .0 .0	
Attenuation for (coaxial)	5 MHz 50 MHz 400 MHz 862 MHz 1350 MHz 2150 MHz	dB/100 m	2. 5.3 16. 24. 31. 40.	13 25 64 82 53 62	
Return loss for	862–1000 MHz 1000–2150 MHz	dB	≥ ` ≥ `	16 15	
DC resistance		Ω/km	9	5	
Screening loss 30-1000 MH	łz	dB	≥ 95	(A+)	
Coupling resistance 5–30 M	ЛНz	mΩ/m	≤2	5	
Maximum permissible tens	sile force	Ν	15	0	
Permissible ambient tempe	erature	°C	-20 to) +60	
CPR 305/2011 - Fire classifi	ication		Euro classif	ication Eca	
Installation location			Indo	oors	
Weight		kg/100 m	7.	5	

Different Pin Assignments on Network Connectors

The standards for RJ45 pin assignments differ above all by swapping over the conductor pairs green and orange. Whilst for RJ45 pin assignments according to the standard EIA/TIA 568A the conductor pair 2 is white/orange and the conductor pair 3 is white/green, for RJ45 pin assignments according to the standard EIA/TIA 568B this is exactly the opposite way round.



Network Connector EML 12

EML 12 212500001



- RJ45 connector Cat 6A 500 MHz screened
- Very high quality RJ45 connector (can be assembled quickly and easily in the field – without special tools)
- POE+ compatible
- Compact cable pre-sorter for AWG22/7 to AWG27/7Fully screened zinc die-cast housing with separate
- dust-proof cap and anti-kink sleeveBest EMC characteristics, especially in an industria
- Best EMC characteristics, especially in an industrial environment

The abbreviation "RJ" stands for "Registered Jack", which means a standard socket. RJ45: This standard specifies the layout of connectors and sockets and also the pin assignments.

Pin assignment

	TIA/EIA T568A	TIA/EIA T568B	Industrial
1	White/green	White/orange	Yellow
2	Green	Orange	Orange
3	White/orange	White/green	White
6	Orange	Green	Blue
4	Blue	Blue	
5	White/blue	White/blue	
7	White/brown	White/brown	
8	Brown	Brown	



- Insulation displacement contact technology and low contact resistances
- Pair management according to TIA/EIA 568 A/B colour codes
- Service life: >750 plug-in cycles
- Temperature range: -40°C to +66°C
- Contact coating: 50 μ" gold-plated
- Protection class IP20

Technical data

Type Order no.		EML 12 212500001
Colour coding standard		TIA/EIA 568 A and TIA/EIA 568 B
Permissible ambient temperature	°C	-10 to +60
Packaging unit/weight	pc./kg	1 (50, 500)/0.022

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