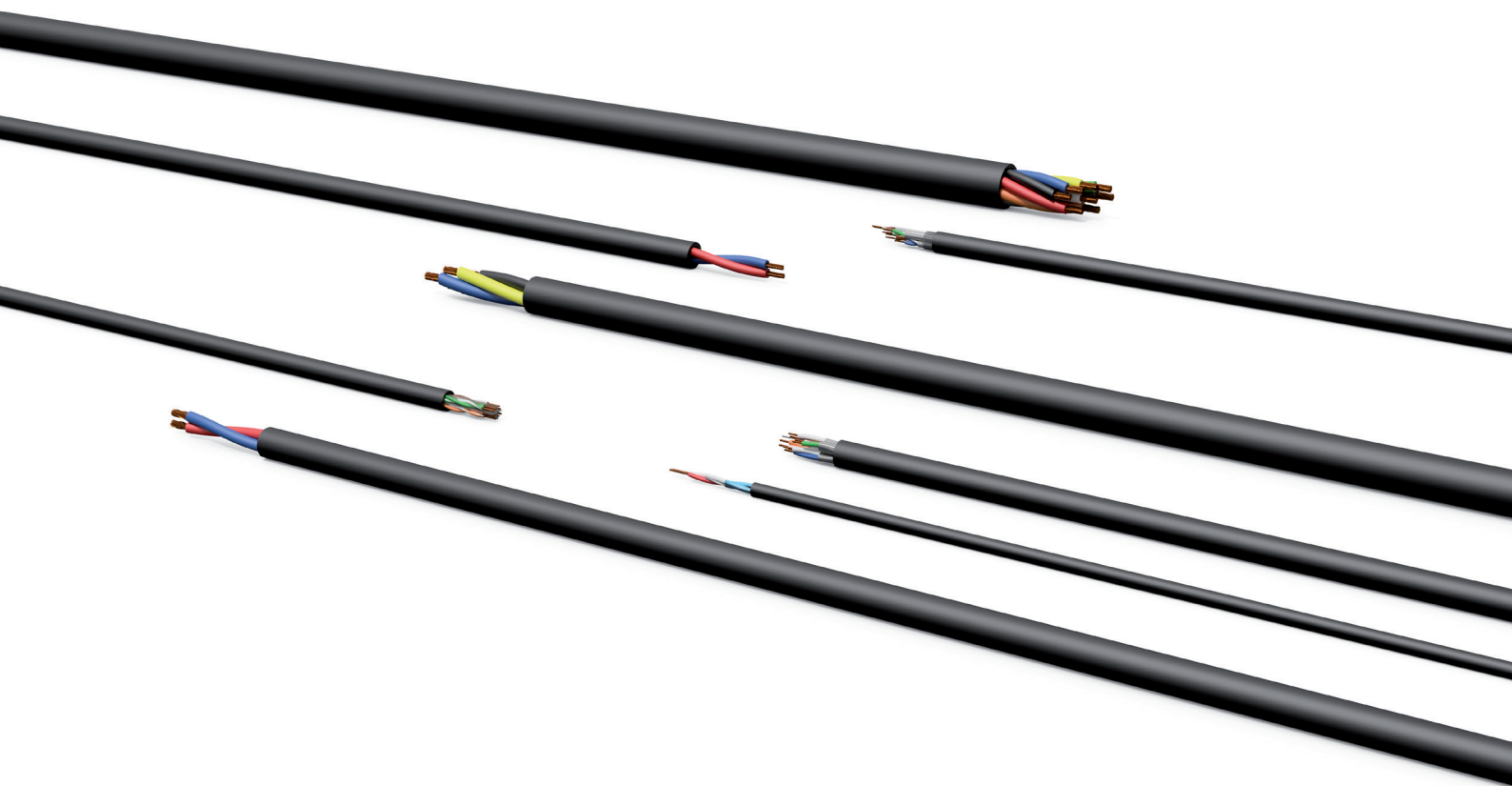




Contractor CPR series

NEUE PRODUKTE 2019



CPR - BAUPRODUKTENVERORDNUNG (BPR)

Als Hersteller professioneller Kabel sehen wir uns in der Verantwortung, Kabel anzubieten, auf die Sie sich jeden Tag verlassen können.

Aus diesem Grund bieten wir CPR-zertifizierte Kabel mit maximalem Brandschutz an. Im Falle eines Brandes sind die meisten Opfer das Resultat giftiger Gase.

Unsere Kabel eliminieren giftige Gase nahezu und bezwingen zudem Brände, womit wir zu einer sichereren Zukunft beitragen.

Procab

Ihr CPR-zertifizierter Partner.

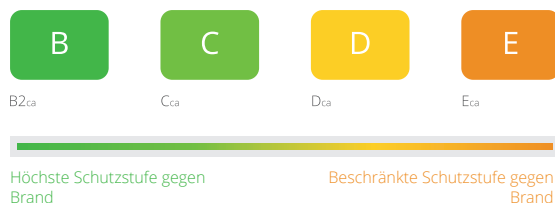
Was ist CPR?

Die Bauproduktenverordnung (BPR) ist eine EU Regulierung für Installationskabel und klassifiziert Kabel auf Grund ihres Brandverhaltens. Die CPR zielt darauf ab, die Brandsicherheit in Gebäuden zu erhöhen.



Warum CPR?

Im Brandfall liegt die größte Gefahr im giftigen Rauch. Da Gebäude voll von Kabel sind, ist das Risiko groß, dass der Brand sich durch die Verkabelung verbreitet. Um die allgemeine Brandsicherheit zu verstärken, muss die installierte Verkabelung einen bestimmten Standard erfüllen. Die neuen CPR-Kabel verhindern das Verbreiten von Bränden und bezwingen somit die Entstehung von giftigen Gasen.



Ziel der CPR

Die Bauproduktenverordnung hat drei Hauptziele:

- Eine höhere Sicherheitsstufe gegen Brand und gefährliche Substanzen
- Absicherung einer Harmonisierung innerhalb der EU
- Erhöhte Klarheit und Rückverfolgbarkeit

Was sind die Verpflichtungen des Herstellers?

Nach der Erstprüfung zur Bestimmung der CPR Klasse der Kabel, ist der Hersteller verpflichtet, durch eine Zertifizierungsstelle regelmäßig Folgetests durchzuführen.

Er ist außerdem verpflichtet, für alle verfügbaren Kabel eine Declaration of Performance bereitzustellen. Darin sind alle Informationen bezüglich des Herstellers, der Kabelidentifizierung, der zugeteilten Standards sowie der Zertifizierungsstelle und CPR-Leistung angegeben.

Welche CPR Klasse brauche ich für mein Projekt?

Einerseits ist in der EU der CPR-Kabelstandard durgehend harmonisiert. Andererseits hat jedes Land seine eigene Regelung bezüglich der jeweiligen Nutzung der CPR-Klasse. Um herauszufinden, welche CPR-Klasse erforderlich ist, prüfen Sie bitte Ihre lokalen Normen.

Was bedeuten die verschiedenen Klassen?

Obwohl die CPR-Klassen von Aca bis Fca reichen, erreichen in der Realität nur wenige Kabel Klasse Aca und B1ca. In der Praxis werden in Gebäuden Kabel der Klasse B2ca, Cca, Dca und Eca verwendet. Hierbei liefert Klasse B2ca die beste und Klasse Eca die geringste Brandleistung.

Zusätzliche Klassifizierungsstufen:

- › **s**: Die Menge des ausgestoßenen Rauches
- › **d**: Brennende Tropfen und Partikel
- › **a**: Säuregrad des Rauches

Bei Euroklassen handelt es sich um die verschiedenen CPR-Verkabelungsklassen. Für jede Klasse gelten spezifische Anforderungen anhand derer die Verkabelung getestet werden muss. Die Euroklassentabelle zeigt jede Klasse mit ihren spezifischen Eigenschaften bezüglich der Brandleistung.

Euroklasse	Kabel	Klassifizierungs-kriterien	Zusätzliche Klassifizierung	Beitrag zum Brand
Aca	Unbrennbare Kabel	EN ISO 1716 Verbrennungswärme	Nur wenige Kabel erreichen Klasse Aca	Kein
B1ca	Kabel mit verbesserter Brandleistung	EN 50399 Verbrennungswärme	Rauchentwicklung (s1, s2, s3) EN 50399/EN 61034-2	Minimal
B2ca			Brennende Tropfen (d0, d1, d2) EN 50267-2-3	Sehr begrenzt
Cca			Säuregrad (a1, a2, a3) EN 50399	Begrenzt
Dca			-	Durchschnittlich
Eca	Standardkabel	EN 60332-1-2 Brandausbreitung	-	Groß
Fca	Unbestimmte Kabel	-	-	Unbestimmt

3 ZUSÄTZLICHE KRITERIEN



RAUCHENTWICKLUNG

Diese Klassen verdeutlichen die Rauchentwicklung im Brandfall

- › **s1**: Sehr geringe rauchentwicklung
- › **s1a**: s1 mit Sichtbarkeit über 80%
- › **s1b**: s1 mit Sichtbarkeit von 60% bis 80%
- › **s2**: Durchschnittliche Rauchentwicklung
- › **s3**: Weder s1 noch s2

BRENNENDE TROPFEN

Diese Klasse zeigt die Menge brennender Tropfen

- › **d0**: Keine fallenden Tropfen
- › **d1**: Tropfen brennen nicht länger als 10ms
- › **d2**: Weder d0 noch d1



SÄUREGRAD DES RAUCHES


Diese Klassen zeigen den Säuregrad des rauches an

- › **a1**: Niedriger Säuregrad (UNE-EN 60754-2 leitfähigkeit <2,5ms/mm y pH > 4.3)
- › **a2**: Durchschnittlicher Säuregrad (UNE-EN 60754-2 leitfähigkeit <10 ms/mm y pH > 4.3)
- › **a3**: weder a1 noch a2

DECLARATION OF PERFORMANCE

Die Declaration of Performance ist ein wichtiges Dokument, in dem alle nötigen Informationen in Bezug auf die Brandleistung des Kabels angegeben werden. Alle Bauprodukte nach europäischer Normierung brauchen dieses Zertifikat zusammen mit der CE-Markierung. Hierdurch entsteht mehr Transparenz zwischen dem Hersteller, Distributor und Installateur.

Sie enthält die Herstellerangabe, die Identifikation des Kabels, das Bewertungssystem, die anwendbare Norm, die Zertifizierungsstelle und die CPR-Klasse.



DECLARATION OF PERFORMANCE


No. S-DOP-F1-L001

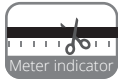
- Unique identification code of the product-type:
S-F1-L001
- Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4):
Procab CCT50U/3
- Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:
Telecommunication cables in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke
- Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):
**PVS NV/Procab Belgium
Veldstraat 99 , 3500 Hasselt Belgium**
- Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):
As above
- System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:
System 3
- In case of the declaration of performance concerning a construction product covered by a harmonised standard:
Notified product certification body No. 2661 performed the determination of product type and of FPC
- Declared performance:

Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	Dca-s2, d2, a1	EN50575:2014+A1:2016
Dangerous substances	None	
- The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8.

*This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.
Signed for and on behalf of the manufacturer by:*

Hasselt, 2017-04-26 Patrick Van de Sande, Manager





The CLS215-B2ca series are 2-core installation loudspeaker cables compliant to the B2ca standards of the Construction Product Regulation (CPR) regarding fire and flammability resistance in fixed installations, minimizing toxic smokes and providing optimal resistance to spreading fire. In addition to its outstanding fire properties the outer jacket of the cabling is smooth and durable for easy installation and pulling. The CLS2xx series consists of three models with individually polyolefin isolated conductors in sections ranging from 1.5 mm² (16 AWG) up to 4 mm² (11 AWG) which are composed of stranded bare copper wires. The stranding keeps the cable flexible and easy to handle. The cable can be used in both indoor and outdoor or in humid environments.

CROSS SECTION	HIGHLIGHTS	INNER CONDUCTOR
	<ul style="list-style-type: none"> EN50399 CPR Euroclass B2ca-s1b,d0,a1 16 AWG (1.5 mm²) thin and dense stranded conductors Class 5 IEC 60228 compliant 	

Type of cable	2-core loudspeaker cable
Inner conductor	BC 28 x 0.25 mm (Ø) (OFC)
Inner conductor section	1.5 mm ²
American Wire Gauge	16 AWG
Insulation	Ø 3.1 mm Polyolefin
Insulation color	Red / Blue
Number of conductors	2
Conductor twisting	Yes
Filling	None
Separator	None
Outer jacket	Polyolefin
Outer jacket diameter	Ø 9 mm
Outer jacket color	Black
Smoke concentration	s1b: s1 with visibility ranging from 60% to 80%
Burning droplets	d0: no falling droplets
Acidity of the smoke	a1: Low acidity (UNE-EN 60754-2)

ELECTRICAL SPECIFICATIONS

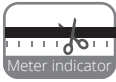
Max. conductor DC resistance	13.3 (Ohm/Km)
Dielectric strength	2 (KV / 1 min. DC)
Voltage rating	500V

AVAILABLE LENGTHS

100 m : CLS215-B2CA/1
300 m : CLS215-B2CA/3

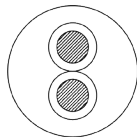


The CLS215-Cca series are 2-core installation loudspeaker cables compliant to the Cca standards of the Construction Product Regulation (CPR) regarding fire and flammability resistance in fixed installations, minimizing toxic smokes and providing optimal resistance to spreading fire. In addition to its Improved fire properties the outer jacket of the cabling is smooth and durable for easy installation and pulling. The CLS2xx series consists of three models with individually polyolefin isolated conductors in sections ranging from 1.5 mm² (16 AWG) up to 4 mm² (11 AWG) which are composed of stranded bare copper wires. The stranding keeps the cable flexible and easy to handle. The cable can be used in both indoor and outdoor or in humid environments.



INSTALL

CROSS SECTION



HIGHLIGHTS

- EN50399 CPR Euroclass Cca-s1b,d0,a1
- 16 AWG (1.5 mm²) thin and dense stranded conductors
- Class 5 IEC 60228 compliant

INNER CONDUCTOR



Type of cable	2-core loudspeaker cable
Inner conductor	BC 28 x 0.25 mm (Ø) (OFC)
Inner conductor section	1.5 mm ²
American Wire Gauge	16 AWG
Insulation	Ø 2.5 mm Polyolefin
Insulation color	Red / Blue
Number of conductors	2
Conductor twisting	Yes
Filling	None
Separator	None
Outer jacket	Polyolefin
Outer jacket diameter	Ø 7 mm
Outer jacket color	Black
Smoke concentration	s1b: s1 with visibility ranging from 60% to 80%
Burning droplets	d0: no falling droplets
Acidity of the smoke	a1: Low acidity (UNE-EN 60754-2)

ELECTRICAL SPECIFICATIONS

Max. conductor DC resistance	13.3 (Ohm/Km)
Dielectric strength	2 (KV / 1 min. DC)
Voltage rating	500V

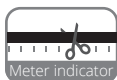
AVAILABLE LENGTHS

100 m : CLS215-CCA/1
300 m : CLS215-CCA/3

CLS225-B2CA CONTRACTOR LOUDSPEAKER CABLE

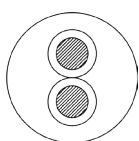


The CLS225-B2ca series are 2-core installation loudspeaker cables compliant to the B2ca standards of the Construction Product Regulation (CPR) regarding fire and flammability resistance in fixed installations, minimizing toxic smokes and providing optimal resistance to spreading fire. In addition to its outstanding fire properties the outer jacket of the cabling is smooth and durable for easy installation and pulling. The stranding keeps the cable flexible and easy to handle. The cable can be used in both indoor and outdoor or in humid environments.



INSTALL

CROSS SECTION



HIGHLIGHTS

- EN50399 CPR Euroclass B2ca-s1b,d0,a1
- 13 AWG (2.5 mm²) thin and dense stranded conductors
- Class 5 IEC 60228 compliant

INNER CONDUCTOR



Type of cable	2-core loudspeaker cable
Inner conductor	BC 40 x 0.263 mm (Ø) (OFC)
Inner conductor section	2.5 mm ²
American Wire Gauge	13 AWG
Insulation	Ø 3.5 mm Polyolefin
Insulation color	Red / Blue
Number of conductors	2
Conductor twisting	Yes
Filling	None
Separator	None
Outer jacket	Polyolefin
Outer jacket diameter	Ø 9.6 mm
Outer jacket color	Black
Smoke concentration	s1b: s1 with visibility ranging from 60% to 80%
Burning droplets	d0: no falling droplets
Acidity of the smoke	a1: Low acidity (UNE-EN 60754-2)

ELECTRICAL SPECIFICATIONS

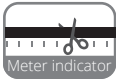
Max. conductor DC resistance	7.98 (Ohm/Km)
Dielectric strength	2 (KV / 1 min. DC)
Voltage rating	500V

AVAILABLE LENGTHS

100 m : CLS225-B2CA/1
300 m : CLS225-B2CA/3

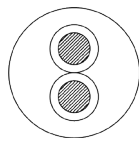


The CLS225-Cca series are 2-core installation loudspeaker cables compliant to the Cca standards of the Construction Product Regulation (CPR) regarding fire and flammability resistance in fixed installations, minimizing toxic smokes and providing optimal resistance to spreading fire. In addition to its outstanding fire properties the outer jacket of the cabling is smooth and durable for easy installation and pulling. The stranding keeps the cable flexible and easy to handle. The cable can be used in both indoor and outdoor or in humid environments.



INSTALL

CROSS SECTION



HIGHLIGHTS

- EN50399 CPR Euroclass Cca-s1b,d0,a1
- 13 AWG (2.5 mm²) thin and dense stranded conductors
- Class 5 IEC 60228 compliant

INNER CONDUCTOR



Type of cable	2-core loudspeaker cable
Inner conductor	BC 40 x 0.263 mm (Ø) (OFC)
Inner conductor section	2.5 mm ²
American Wire Gauge	13 AWG
Insulation	Ø 3.0 mm Polyolefin
Insulation color	Red / Blue
Number of conductors	2
Conductor twisting	Yes
Filling	None
Separator	None
Outer jacket	Polyolefin
Outer jacket diameter	Ø 8.5 mm
Outer jacket color	Black
Smoke concentration	s1b: s1 with visibility ranging from 60% to 80%
Burning droplets	d0: no falling droplets
Acidity of the smoke	a1: Low acidity (UNE-EN 60754-2)

ELECTRICAL SPECIFICATIONS

Max. conductor DC resistance	7.98 (Ohm/Km)
Dielectric strength	2 (KV / 1 min. DC)
Voltage rating	500V

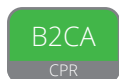
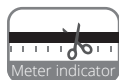
AVAILABLE LENGTHS

100 m : CLS225-CCA/1
300 m : CLS225-CCA/3

CLS240-B2CA CONTRACTOR LOUDSPEAKER CABLE



The CLS240-B2ca series are 2-core installation loudspeaker cables compliant to the B2ca standards of the Construction Product Regulation (CPR) regarding fire and flammability resistance in fixed installations, minimizing toxic smokes and providing optimal resistance to spreading fire. In addition to its outstanding fire properties the outer jacket of the cabling is smooth and durable for easy installation and pulling. The stranding keeps the cable flexible and easy to handle. The cable can be used in both indoor and outdoor or in humid environments.



INSTALL

CROSS SECTION	HIGHLIGHTS	INNER CONDUCTOR
	<ul style="list-style-type: none"> EN50399 CPR Euroclass B2ca-s1b,d0,a1 11 AWG (4 mm²) thin and dense stranded conductors Class 5 IEC 60228 compliant 	

Type of cable	2-core loudspeaker cable
Inner conductor	BC 48 x 0,31 mm (Ø) (OFC)
Inner conductor section	4 mm ²
American Wire Gauge	11 AWG
Insulation	Ø 4.5 mm Polyolefin
Insulation color	Red / Blue
Number of conductors	2
Conductor twisting	Yes
Filling	None
Separator	None
Outer jacket	Polyolefin
Outer jacket diameter	Ø 11.7 mm
Outer jacket color	Black
Smoke concentration	s1b: s1 with visibility ranging from 60% to 80%
Burning droplets	d0: no falling droplets
Acidity of the smoke	a1: Low acidity (UNE-EN 60754-2)

ELECTRICAL SPECIFICATIONS

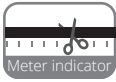
Max. conductor DC resistance	4.95 (Ohm/Km)
Dielectric strength	2 (KV / 1 min. DC)
Voltage rating	500V

AVAILABLE LENGTHS

100 m : CLS240-B2CA/1
300 m : CLS240-B2CA/3

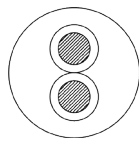


The CLS240-Cca series are 2-core installation loudspeaker cables compliant to the Cca standards of the Construction Product Regulation (CPR) regarding fire and flammability resistance in fixed installations, minimizing toxic smokes and providing optimal resistance to spreading fire. In addition to its outstanding fire properties the outer jacket of the cabling is smooth and durable for easy installation and pulling. The stranding keeps the cable flexible and easy to handle. The cable can be used in both indoor and outdoor or in humid environments.



INSTALL

CROSS SECTION



HIGHLIGHTS

- EN50399 CPR Euroclass Cca-s1b,d0,a1
- 11 AWG (4 mm²) thin and dense stranded conductors
- Class 5 IEC 60228 compliant

INNER CONDUCTOR



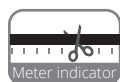
Type of cable	2-core loudspeaker cable
Inner conductor	BC 48 x 0.31 mm (Ø) (OFC)
Inner conductor section	4 mm ²
American Wire Gauge	11 AWG
Insulation	Ø 4.0 mm Polyolefin
Insulation color	Red / Blue
Number of conductors	2
Conductor twisting	Yes
Filling	None
Separator	None
Outer jacket	Polyolefin
Outer jacket diameter	Ø 10.2 mm
Outer jacket color	Black
Smoke concentration	s1b: s1 with visibility ranging from 60% to 80%
Burning droplets	d0: no falling droplets
Acidity of the smoke	a1: Low acidity (UNE-EN 60754-2)

ELECTRICAL SPECIFICATIONS

Max. conductor DC resistance	4.95 (Ohm/Km)
Dielectric strength	2 (KV / 1 min. DC)
Voltage rating	500V

AVAILABLE LENGTHS

100 m : CLS240-CCA/1
300 m : CLS240-CCA/3



The CLS440-Cca is a 4-core installation loudspeaker cable compliant to the Cca standard of the Construction Product Regulation (CPR) regarding fire and flammability resistance in fixed installations, minimizing toxic smokes and providing optimal resistance to spreading fire. In addition to its outstanding fire properties the outer jacket of the cabling is smooth and durable for easy installation and pulling. The cable consist of individually polyolefin isolated conductors with a section of 4 x 4.0 mm² (11 AWG) which are composed out of stranded bare copper wires. The stranding keeps the cable flexible and easy to handle. The cable can be used both indoor and outdoor or in humid environments.

CROSS SECTION	HIGHLIGHTS	INNER CONDUCTOR
	<ul style="list-style-type: none"> • EN50399 CPR Euroclass Cca-s1b,d0,a1 • 11 AWG (4 mm²) thin and dense stranded conductors • Class 5 IEC 60228 compliant 	

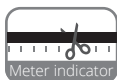
Type of cable	4-core loudspeaker cable
Inner conductor	BC 48 x 0.31 mm (Ø) (OFC)
Inner conductor section	4 mm ²
American Wire Gauge	11 AWG
Insulation	Ø 4.0 mm Polyolefin
Insulation color	Black, Red, Blue, Yellow
Number of conductors	4
Conductor twisting	Yes
Filling	None
Separator	None
Outer jacket	Polyolefin
Outer jacket diameter	Ø 11.8 mm
Outer jacket color	Black
Smoke concentration	s1b: s1 with visibility ranging from 60% to 80%
Burning droplets	d0: no falling droplets
Acidity of the smoke	a1: Low acidity (UNE-EN 60754-2)

ELECTRICAL SPECIFICATIONS

Max. conductor DC resistance	4.95 (Ohm/Km)
Dielectric strength	2 (KV / 1 min. DC)
Voltage rating	500V

AVAILABLE LENGTHS

300 m : CLS440-CCA/3



The CLS840-Cca is an 8-core installation loudspeaker cable compliant to the Cca standard of the Construction Product Regulation (CPR) regarding fire and flammability resistance in fixed installations, minimizing toxic smokes and providing optimal resistance to spreading fire. In addition to its outstanding fire properties the outer jacket of the cabling is smooth and durable for easy installation and pulling. The cable consist of individually polyolefin isolated conductors with a section of 8 x 4.0 mm² (11 AWG) which are composed out of stranded bare copper wires. The stranding keeps the cable flexible and easy to handle. The cable can be used both indoor and outdoor or in humid environments.

CROSS SECTION	HIGHLIGHTS	INNER CONDUCTOR
	<ul style="list-style-type: none"> • EN50399 CPR Euroclass Cca-s1b,d0,a1 • 11 AWG (4 mm²) thin and dense stranded conductors • Class 5 IEC 60228 compliant 	

Type of cable	8-core loudspeaker cable
Inner conductor	BC 48 x 0.31 mm (Ø) (OFC)
Inner conductor section	4 mm ²
American Wire Gauge	11 AWG
Insulation	Ø 4.0 mm Polyolefin
Insulation color	Red, Black, Blue, Yellow, Green, Grey, Orange, White
Number of conductors	8
Conductor twisting	Yes
Filling	None
Separator	None
Outer jacket	Polyolefin
Outer jacket diameter	Ø 16.4 mm
Outer jacket color	Black
Smoke concentration	s1b: s1 with visibility ranging from 60% to 80%
Burning droplets	d0: no falling droplets
Acidity of the smoke	a1: Low acidity (UNE-EN 60754-2)

ELECTRICAL SPECIFICATIONS

Max. conductor DC resistance	4.95 (Ohm/Km)
Dielectric strength	2 (KV / 1 min. DC)
Voltage rating	500V

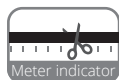
AVAILABLE LENGTHS

300 m : CLS840-CCA/3


CMC224-CCA CONTRACTOR MICROPHONE CABLE



AVAILABLE: Q2 2019



The CMC224-Cca is a high quality installation microphone cable compliant to the Cca standards of the Construction Product Regulation (CPR) regarding fire and flammability resistance in fixed installations, minimizing toxic smokes and providing optimal resistance to spreading fire. In addition to its improved fire properties, the outer jacket of the cabling is smooth and durable for easy installation and pulling. It consists of stranded conductors with an aluminum foil shielding and drain wire, which guarantees a high installers convenience. The highly effective shielding guarantees an excellent immunity against noise and interference caused by external devices. The stranding keeps the cable flexible and easy to handle. The cable can be used both indoor and outdoor.

<h3>CROSS SECTION</h3> 	<h3>HIGHLIGHTS</h3> <ul style="list-style-type: none"> • EN50399 CPR Euroclass Cca-s1b,d0,a1 • 24 AWG (0.20 mm²) thin and dense stranded conductors • Aluminum shielded conductors with drain wire 	<h3>INNER CONDUCTOR</h3>  <h3>SHIELDING</h3> 
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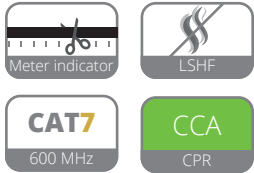
Type of cable	24 AWG Microphone cable
Inner conductor	BC 25 x 0.1 mm (Ø) (OFC)
Inner conductor section	0.20 mm ²
American Wire Gauge	24 AWG
Insulation	Ø 1.15 mm Polyolefin
Insulation color	White / Red
Number of conductors	2
Conductor twisting	Yes
Shielding	Al-foil + drain wire
Outer jacket	Polyolefin
Outer jacket diameter	Ø 3.7 mm
Outer jacket color	Black
Smoke concentration	s1b: s1 with visibility ranging from 60% to 80%
Burning droplets	d0: no falling droplets
Acidity of the smoke	a1: Low acidity (UNE-EN 60754-2)

ELECTRICAL SPECIFICATIONS

Max. conductor DC resistance	85 (Ohm/Km)
Dielectric strength	500 (KV / 1 min. DC)
Voltage rating	100V

AVAILABLE LENGTHS

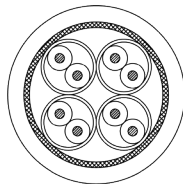
100 m : CMC224-CCA/1
 300 m : CMC224-CCA/3



INSTALL

The CCT70S-Cca is a CAT7 installation networking cable compliant to the Cca standard of the Construction Product Regulation (CPR) regarding fire and flammability resistance in fixed installations, minimizing toxic smokes and providing optimal resistance to spreading fire. In addition to its outstanding fire properties the outer jacket of the cabling is smooth and durable for easy installation and pulling. The cable consists of 4 individually shielded twisted pair cables with solid 23 AWG conductors, overall braided shielding is provided to reduce crosstalk and system noise to a minimum resulting in a higher bandwidth and improved immunity against noise and interference caused by external devices. Providing an optimized solution for 100Base-T, 1000Base-TX and 10GBase-T gigabit networks.

CROSS SECTION



HIGHLIGHTS

- EN50399 CPR Euroclass Cca-s1a,d1,a1
- 600 Mhz performance, up to 10GBase-T
- IEC 60332-1 NHFR compliant
- Al-foil individual & braided overall shielding
- Reference standard: UL Subject 444, TIA/EIA 568B.2 & ISO / IEC 11801, IEC 61156-5

INNER CONDUCTOR



SHIELDING



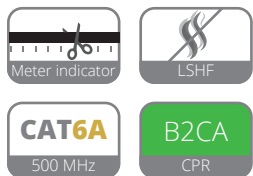
Type of cable	S/FTP CAT7 Networking cable
Inner conductor	BC 1 x 0.566 mm (Ø) (OFC)
Inner conductor section	0,25 mm ²
American Wire Gauge	23 AWG
Insulation	Foamed PE
Insulation color	Green / White & Green ; Blue / White & Blue ; Orange / White & Orange ; Brown / White & Brown
Number of conductors	8 (4 pairs)
Shielding	Al-mylar, 100% coverage – 25% overlap
Overall shielding	TC 10 x 8 x 0.08 mm (Ø) (OFC) - braid
Seperator	None
Outer jacket	LSZH
Outer jacket color	Black
Smoke concentration	s1a: s1 with visibility over 80%
Burning droplets	d1: burning droplets persist less than 10ms
Acidity of the smoke	a1: Low acidity (UNE-EN 60754-2)

ELECTRICAL SPECIFICATIONS

Max. Delay / Skew	<25ns / 100m
Rated voltage	300 V
Nom. Velocity of propagation	76%
Characteristic impedance	100 Ω ± 15 Ω
Max. conductor DC resistance	7.9 Ω / 100m
Max. conductor DC resistance unbalanced	< 2%
Nom. mutual capacitance	5,6µF/100m
Pair to ground capacitance unbalance Max Capacitance	< 160pF/100m
Pair to ground capacitance unbalance	< 330pF/100m

AVAILABLE LENGTHS

305 m : CCT70S-CCA/3



INSTALL

The CCT65F-B2ca is a CAT6A installation networking cable compliant to the B2ca standard of the Construction Product Regulation (CPR) regarding fire and flammability resistance in fixed installations, minimizing toxic smokes and providing optimal resistance to spreading fire. In addition to its outstanding fire properties the outer jacket of the cabling is smooth and durable for easy installation and pulling. The cable consists of 4 individually shielded twisted pair cables with solid 23 AWG conductors. This way, crosstalk and system noise is reduced to a minimum, resulting in a higher bandwidth and improved immunity against noise and interference caused by external devices. Providing an optimized solution for 100Base-T, 1000Base-TX and 10GBase-T gigabit networks.

<h3>CROSS SECTION</h3> 	<h3>HIGHLIGHTS</h3> <ul style="list-style-type: none"> • EN50399 CPR Euroclass B2ca-s1a,d1,a1 • 500 Mhz performance, up to 10GBase-T • Reference standard: UL Subject 444,TIA/EIA 568B.2/568C.2 & ISO / IEC 11801, IEC 61156-5 • Aluminum foil individual shielding 	<h3>INNER CONDUCTOR</h3>  <h3>SHIELDING</h3> 
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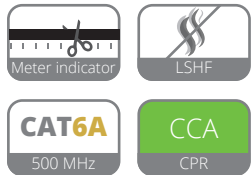
Type of cable	U/FTP CAT6A Networking cable
Inner conductor	BC 1 x 0.56 mm (Ø) (OFC)
Inner conductor section	0,25 mm²
American Wire Gauge	23 AWG
Insulation	Foamed PE
Insulation color	Green / White & Green ; Blue / White & Blue ; Orange / White & Orange ; Brown / White & Brown
Number of conductors	8 (4 pairs)
Conductor twisting	Yes
Shielding	Al-mylar, 100% coverage – 25% overlap
Outer jacket	LSZH
Outer jacket color	Black
Smoke concentration	s1a: s1 with visibility over 80%
Burning droplets	d1: burning droplets persist less than 10ms
Acidity of the smoke	a1: Low acidity (UNE-EN 60754-2)

ELECTRICAL SPECIFICATIONS

Max. Delay / Skew	<25ns / 100m
Rated voltage	300 V
Nom. Velocity of propagation	74%
Characteristic impedance	100 Ω ± 15 Ω
Max. conductor DC resistance	8.3 Ω / 100m
Max. conductor DC resistance unbalanced	< 2%
Nom. mutual capacitance	5,6µF/100m
Pair to ground capacitance unbalance Max Capacitance	< 160pF/100m
Pair to ground capacitance unbalance	< 330pF/100m

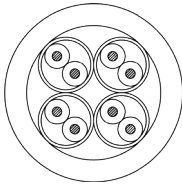

AVAILABLE LENGTHS

305 m : CCT65F-B2CA/3



INSTALL

The CCT65F-Cca is a CAT6A installation networking cable compliant to the Cca standard of the Construction Product Regulation (CPR) regarding fire and flammability resistance in fixed installations, minimizing toxic smokes and providing optimal resistance to spreading fire. In addition to its Improved fire properties the outer jacket of the cabling is smooth and durable for easy installation and pulling. The cable consists of 4 individually shielded twisted pair cables with solid 23 AWG conductors. This way, crosstalk and system noise is reduced to a minimum, resulting in a higher bandwidth and improved immunity against noise and interference caused by external devices. Providing an optimized solution for 100Base-T, 1000Base-TX and 10GBase-T gigabit networks.

<h3>CROSS SECTION</h3> 	<h3>HIGHLIGHTS</h3> <ul style="list-style-type: none"> • EN50399 CPR Euroclass Cca-s1a,d1,a1 • 500 Mhz performance, up to 10GBase-T • Reference standard: UL Subject 444,TIA/EIA 568B.2/568C.2 & ISO / IEC 11801, IEC 61156-5 • Aluminum foil individual shielding 	<h3>INNER CONDUCTOR</h3>  <h3>SHIELDING</h3> 
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Type of cable	U/FTP CAT6A Networking cable
Inner conductor	BC 1 x 0.56 mm (Ø) (OFC)
Inner conductor section	0,25 mm²
American Wire Gauge	23 AWG
Insulation	Foamed PE
Insulation color	Green / White & Green ; Blue / White & Blue ; Orange / White & Orange ; Brown / White & Brown
Number of conductors	8 (4 pairs)
Conductor twisting	Yes
Shielding	Al-mylar, 100% coverage – 25% overlap
Seperator	None
Outer jacket	LSZH
Outer jacket color	Black
Smoke concentration	s1a: s1 with visibility over 80%
Burning droplets	d1: burning droplets persist less than 10ms
Acidity of the smoke	a1: Low acidity (UNE-EN 60754-2)

ELECTRICAL SPECIFICATIONS

Max. Delay / Skew	<25ns / 100m
Rated voltage	300 V
Nom. Velocity of propagation	74%
Characteristic impedance	100 Ω ± 15 Ω
Max. conductor DC resistance	8.3 Ω / 100m
Max. conductor DC resistance unbalanced	< 2%
Nom. mutual capacitance	5,6µF/100m
Pair to ground capacitance unbalance Max Capacitance	< 160pF/100m
Pair to ground capacitance unbalance	< 330pF/100m

AVAILABLE LENGTHS

305 m : CCT65F-CCA/3



The CCT65F-Dca is a CAT6A installation networking cable compliant to the Dca standard of the Construction Product Regulation (CPR) regarding fire and flammability resistance in fixed installations, minimizing toxic smokes and providing optimal resistance to spreading fire. In addition to its Improved fire properties the outer jacket of the cabling is smooth and durable for easy installation and pulling. The cable consists of 4 individually shielded twisted pair cables with solid 23 AWG conductors. This way, crosstalk and system noise is reduced to a minimum, resulting in a higher bandwidth and improved immunity against noise and interference caused by external devices. Providing an optimized solution for 100Base-T, 1000Base-TX and 10GBase-T gigabit networks.

<h3>CROSS SECTION</h3>	<h3>HIGHLIGHTS</h3> <ul style="list-style-type: none"> • EN50399 CPR Euroclass Dca-s1a,d1,a1 • 500 Mhz performance, up to 10GBase-T • Reference standard: UL Subject 444,TIA/EIA 568B.2/568C.2 & ISO / IEC 11801, IEC 61156-5 • Aluminum foil individual shielding 	<h3>INNER CONDUCTOR</h3> <p>SOLID OXYGEN FREE COPPER</p> <h3>SHIELDING</h3> <p>ALUMINUM FOIL</p>
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Type of cable	U/FTP CAT6A Networking cable
Inner conductor	BC 1 x 0.56 mm (Ø) (OFC)
Inner conductor section	0,25 mm ²
American Wire Gauge	23 AWG
Insulation	Foamed PE
Insulation color	Green / White & Green ; Blue / White & Blue ; Orange / White & Orange ; Brown / White & Brown
Number of conductors	8 (4 pairs)
Conductor twisting	Yes
Shielding	Al-mylar, 100% coverage – 25% overlap
Outer jacket	LSZH
Outer jacket color	Black
Smoke concentration	s1a: s1 with visibility over 80%
Burning droplets	d1: burning droplets persist less than 10ms
Acidity of the smoke	a1: Low acidity (UNE-EN 60754-2)

ELECTRICAL SPECIFICATIONS

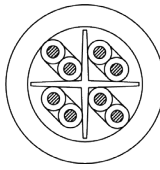
Max. Delay / Skew	<25ns / 100m
Rated voltage	300 V
Nom. Velocity of propagation	74%
Characteristic impedance	100 Ω ± 15 Ω
Max. conductor DC resistance	8.3 Ω / 100m
Max. conductor DC resistance unbalanced	< 2%
Nom. mutual capacitance	5,6µF/100m
Pair to ground capacitance unbalance Max Capacitance	< 160pF/100m
Pair to ground capacitance unbalance	< 330pF/100m

AVAILABLE LENGTHS

305 m : CCT65F-DCA/3



The CCT60U-B2ca is a CAT6 installation networking cable compliant to the B2ca standard of the Construction Product Regulation (CPR) regarding fire and flammability resistance in fixed installations, minimizing toxic smokes and providing optimal resistance to spreading fire. In addition to its outstanding fire properties the outer jacket of the cabling is smooth and durable for easy installation and pulling. The cable consists of 4 twisted pair cables with solid 23 AWG conductors and a "+" shaped separator. This way, crosstalk and system noise is reduced to a minimum, resulting in a higher bandwidth and improved immunity against noise and interference caused by external devices. Providing an optimized solution for 10Base-T, 100Base-TX and 1000Base-T gigabit networks.

<h3>CROSS SECTION</h3> 	<h3>HIGHLIGHTS</h3> <ul style="list-style-type: none"> • EN50399 CPR Euroclass B2ca-s1a,d1,a1 compliant cable • 250 Mhz performance, up to 1000Base-T • "+" Shaped separator to reduce crosstalk • Reference standard: UL Subject 444,TIA/EIA 568B.2/568C.2 & ISO / IEC 11801, IEC 61156-5 	<h3>INNER CONDUCTOR</h3> 
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Type of cable	U/UTP CAT6 Networking cable
Inner conductor	BC 1 x 0.56 mm (Ø) (OFC)
Inner conductor section	0,25 mm²
American Wire Gauge	23 AWG
Insulation	Foamed PE
Insulation color	Green / White & Green ; Blue / White & Blue ; Orange / White & Orange ; Brown / White & Brown
Number of conductors	8 (4 pairs)
Conductor twisting	Yes
Separator	+ shaped separator
Shielding	Al-mylar, 100% coverage – 25% overlap
Outer jacket	LSZH
Outer jacket color	Black
Smoke concentration	s1a: s1 with visibility over 80%
Burning droplets	d1: burning droplets persist less than 10ms
Acidity of the smoke	a1: Low acidity (UNE-EN 60754-2)

ELECTRICAL SPECIFICATIONS

Max. Delay / Skew	<45ns / 100m
Rated voltage	300 V
Nom. Velocity of propagation	69%
Characteristic impedance	100 Ω ± 15 Ω
Max. conductor DC resistance	8.2 Ω / 100m
Max. conductor DC resistance unbalanced	< 2%
Nom. mutual capacitance	5,6µF/100m
Pair to ground capacitance unbalance Max Capacitance	< 160pF/100m
Pair to ground capacitance unbalance	< 330pF/100m

AVAILABLE LENGTHS

305 m : CCT60U-B2CA/3



INSTALL

The CCT60U-Cca is a CAT6 installation networking cable compliant to the Cca standard of the Construction Product Regulation (CPR) regarding fire and flammability resistance in fixed installations, minimizing toxic smokes and providing optimal resistance to spreading fire. In addition to its improved fire properties the outer jacket of the cabling is smooth and durable for easy installation and pulling. The cable consists of 4 twisted pair cables with solid 23 AWG conductors and a "+" shaped separator. This way, crosstalk and system noise is reduced to a minimum, resulting in a higher bandwidth and improved immunity against noise and interference caused by external devices. Providing an optimized solution for 10Base-T, 100Base-TX and 1000Base-T gigabit networks.

CROSS SECTION	HIGHLIGHTS	INNER CONDUCTOR
	<ul style="list-style-type: none"> EN50399 CPR Euroclass Cca-s1a,d1,a1 250 Mhz performance, up to 1000Base-T "+" Shaped separator to reduce crosstalk Reference standard: UL Subject 444,TIA/EIA 568B.2/568C.2 & ISO / IEC 11801, IEC 61156-5 	

Type of cable	U/UTP CAT6 Networking cable
Inner conductor	BC 1 x 0.56 mm (Ø) (OFC)
Inner conductor section	0,25 mm²
American Wire Gauge	23 AWG
Insulation	Foamed PE
Insulation color	Green / White & Green ; Blue / White & Blue ; Orange / White & Orange ; Brown / White & Brown
Number of conductors	8 (4 pairs)
Conductor twisting	Yes
Separator	+ shaped separator
Outer jacket	LSZH
Outer jacket color	Black
Smoke concentration	s1a: s1 with visibility over 80%
Burning droplets	d1: burning droplets persist less than 10ms
Acidity of the smoke	a1: Low acidity (UNE-EN 60754-2)

ELECTRICAL SPECIFICATIONS

Max. Delay / Skew	<45ns / 100m
Rated voltage	300 V
Nom. Velocity of propagation	69%
Characteristic impedance	100 Ω ± 15 Ω
Max. conductor DC resistance	8.2 Ω / 100m
Max. conductor DC resistance unbalanced	< 2%
Nom. mutual capacitance	5,6µF/100m
Pair to ground capacitance unbalance Max Capacitance	< 160pF/100m
Pair to ground capacitance unbalance	< 330pF/100m

AVAILABLE LENGTHS

305 m : CCT60U-CCA/3



INSTALL

The CCT60U-Dca is a CAT6 installation networking cable compliant to the Dca standard of the Construction Product Regulation (CPR) regarding fire and flammability resistance in fixed installations, minimizing toxic smokes and providing optimal resistance to spreading fire. In addition to its improved fire properties the outer jacket of the cabling is smooth and durable for easy installation and pulling. The cable consists of 4 twisted pair cables with solid 23 AWG conductors and a "+" shaped separator. This way, crosstalk and system noise is reduced to a minimum, resulting in a higher bandwidth and improved immunity against noise and interference caused by external devices. Providing an optimized solution for 10Base-T, 100Base-TX and 1000Base-T gigabit networks.

CROSS SECTION	HIGHLIGHTS	INNER CONDUCTOR
	<ul style="list-style-type: none"> EN50399 CPR Euroclass Dca-s2,d1,a1 250 Mhz performance, up to 1000Base-T "+" Shaped separator to reduce crosstalk Reference standard: UL Subject 444,TIA/EIA 568B.2/568C.2 & ISO / IEC 11801, IEC 61156-5 	

Type of cable	U/UTP CAT6 Networking cable
Inner conductor	BC 1 x 0.56 mm (Ø) (OFC)
Inner conductor section	0,25 mm ²
American Wire Gauge	23 AWG
Insulation	Foamed PE
Insulation color	Green / White & Green ; Blue / White & Blue ; Orange / White & Orange ; Brown / White & Brown
Number of conductors	8 (4 pairs)
Conductor twisting	Yes
Separator	+ shaped separator
Outer jacket	LSZH
Outer jacket color	Black
Smoke concentration	s2: intermediate smoke production
Burning droplets	d1: burning droplets persist less than 10ms
Acidity of the smoke	a1: Low acidity (UNE-EN 60754-2 conductivity <2,5ms/mm y pH > 4.3)

ELECTRICAL SPECIFICATIONS

Max. Delay / Skew	<45ns / 100m
Rated voltage	300 V
Nom. Velocity of propagation	69%
Characteristic impedance	100 Ω ± 15 Ω
Max. conductor DC resistance	8.2 Ω / 100m
Max. conductor DC resistance unbalanced	< 2%
Nom. mutual capacitance	5,6µF/100m
Pair to ground capacitance unbalance Max Capacitance	< 160pF/100m
Pair to ground capacitance unbalance	< 330pF/100m

AVAILABLE LENGTHS

305 m : CCT60U-DCA/3

INDEX

CCT60U-B2CA	19	CCT65F-CCA	17	CLS215-CCA	7	CLS240-CCA	11
CCT60U-CCA	20	CCT65F-DCA	18	CLS225-B2CA	8	CLS440-CCA	12
CCT60U-DCA	21	CCT70S-CCA	15	CLS225-CCA	9	CLS840-CCA	13
CCT65F-B2CA	16	CLS215-B2CA	6	CLS240-B2CA	10	CMC224-CCA	14

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procab.be



AUDIO



VIDEO



DIGITAL



POWER