



Copper and Fibre Cabling Infrastructure Offering - Europe

Panduit Enterprise Network Cabling Solutions provide the industry’s most comprehensive portfolio of products and services that enable sustainable, energy-efficient enterprises for the European Community. Our innovative design features provide improved network reliability and flexibility, easy installation, and reduced maintenance costs.

Construction Products Regulation (CPR)

The new European Regulation for copper and fibre horizontal cable products entitled the Construction Products Regulation (CPR) becomes effective July 1, 2017. Panduit is prepared for the new Regulation allowing for a seamless transition for our customers. The new regulation replaces the current low smoke zero halogen (LSZH) standard.

Panduit has classified its current European portfolio of copper and fibre horizontal cables utilizing the approved Notified Bodies and therefore ensuring compliance to the requirements of the Construction Products Regulation (CPR).

The Regulation states that copper and fiber horizontal data cable products manufactured July 1, 2017 and onward must have a CE mark on the packaging as well as a Declaration of Performance (DoP) readily available to the user.

For product manufactured prior to July 1, 2017, the Regulation states that it is a responsibility of the manufacturer to have a DoP readily available as evidence of the product’s classification. The CE mark on the packaging is not required for product manufactured prior to July 1, 2017. Panduit began applying the CE mark to the product packaging beginning in April 2017 with total implementation occurring over the past three months. It is understood that a portion of product in the current supply chain may not have the CE mark, however the product will still comply with the Regulation.

What are the new standard classifications?

The CPR standardizes the flammability ratings of copper and fibre cables across Europe by rating the reaction to fire performance into EuroClasses. EuroClasses B2ca through Fca apply to communication cable.

	Euroclass (ca)	Classification criteria	Additional criteria	Attestation of conformity system
<i>"Non combustible"</i> <i>(e.g. unsheathed mineral insulated)</i>	A	EN ISO 1716 Gross heat of combustion		1+ - initial type-testing and continuous surveillance with audit testing of samples by 3rd party certification body -factory production control (FPC) by manufacturer
	B1 B2	EN 50399 Heat release Flame spread EN 60332-1-2 Flame propagation	Smoke production (s1a, s1b, s2, s3) EN50399/EN61034-2	
<i>"Low-Fire-Hazard"</i> <i>cables (various levels)</i>	C		Acidity (a1, a2, a3) EN50267-2-3 /EN60754-2	
	D		Flaming droplets (d0, d1, d2) EN50399	
<i>« Standard » cables</i>	E	EN 60332-1-2 Flame propagation		3- initial type-testing by 3rd party laboratory -FPC by manufacturer
<i>No performance determined</i>	F			4- initial type-testing and FPC by manufacturer



What about the additional criteria?

The additional criteria are only applicable to EuroClass B2ca, Cca and Dca.

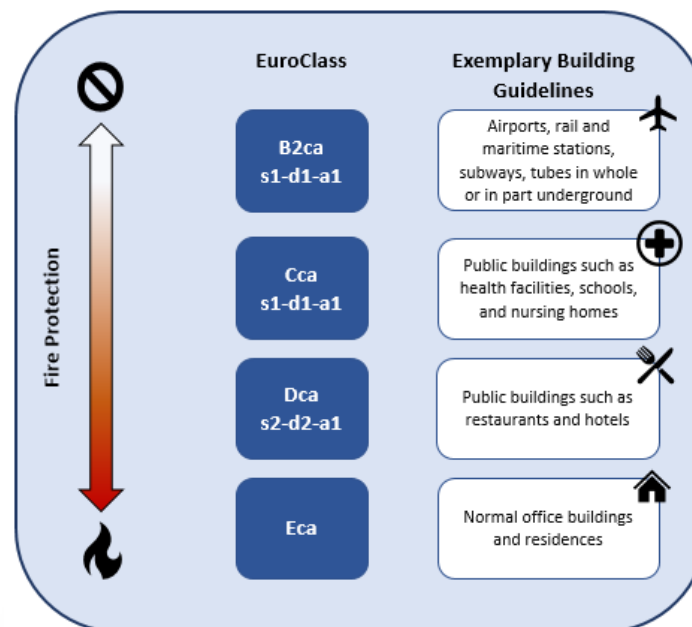
Smoke Production	
Amount of smoke and smoke density	
s1	TSP ≤ 50 m ² and max. SPR ≤ 0.25 m ² /s
s1a	s1 and transmission value per EN 61034-2 ≥ 80%
s1b	s1 and transmission value per EN 61034 ≥ 60% < 80%
s2	TSP ≤ 400 m ² and max. SPR ≤ 1.5 m ² /s
s3	Neither s1 nor s2

Flaming Droplets	
Droplets produced by burning cable	
d0	No flaming droplets/particles
d1	No flaming droplets/particles for longer than 10s
d2	Neither d0 nor d1

Acidity	
Level of acidity of smoke produced	
a1	Electrical conductivity < 2.5 μS/mm and pH value > 4.3
a1	Electrical conductivity < 10 μS/mm and pH value > 4.3
a3	Neither a1 nor a2. No data = no performance determined

Typical Applications (For Reference Only)

The CPR guidelines include specifications for the type of building locations that are appropriate for each EuroClass. Please note that it is the sole responsibility of local authorities for each EU member country to define which EuroClass is required in a specific location within a building structure. The following is simply an example of how the EuroClasses may be used. The final specification shall be determined by the specific country and where the cable is being installed.



Can I substitute a higher-level cable?

Yes! The CPR EuroClasses can be substituted. This means that a project requiring EuroClass Dca cables could also be completed using a higher-level cable, such as B2ca or Cca. The same is true with the additional Criteria; a cable with s1, d1, a1 rating can be used in place of an s2, d2, a2 requirement.



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Category 5e Copper Cable					
Part Number	Flammability Rating	EuroClass	AWG	Preferred Color	Length
U/UTP					
PUL5504WH-EY	LSZH-1	Dca-s2-d2-a1	24	White	305m
PUZ5504WH-CEG	LSZH-3	Dca-s1a-d2-a1	24	White	305m
PUZ5504WH-CED	LSZH-3	Dca-s1a-d2-a1	24	White	500m
F/UTP					
PFC5504LG-KG	PVC	Eca	24	Light Gray	305m
PFL5504DG-KG	LSZH-1	Eca	24	Dark Gray	305m
Category 6 Copper Cable					
Part Number	Flammability Rating	EuroClass	AWG	Preferred Color	Length
U/UTP					
PUC6C04BU-CE	CM	Eca	24	Blue	305m
PUL6C04WH-KE	LSZH-1	Eca	24	White	305m
PUL6C04WH-KED	LSZH-1	Eca	24	White	500m
PUL6C04WH-CE	LZSH-1	Dca-s2-d2-a1	24	White	305m
PUD6C2804BU-CE	CM/LSZH-1/LSZH-3	Eca	28	Blue	305m
PUY6C04WH-CE NEW!	NA	Cca-s1a-d1-a1	24	White	305m
PUY6C04WH-CED NEW!	NA	Cca-s1a-d1-a1	24	White	500m
PUL6004WH-KE NEW!	LSZH-1	Dca-s2-d2-a1	23	White	305m
PUL6004WH-KED NEW!	LSZH-1	Dca-s2-d2-a1	23	White	500m
PUL6004WH-FE	LSZH-1	Dca-s2-d2-a1	23	White	305m
PUL6004WH-EY	LSZH-1	Dca-s2-d2-a1	23	White	305m
PUZ6004WH-CEG	LSZH-3	Dca-s1a-d2-a1	23	White	305m
PUZ6004WH-CED	LSZH-3	Dca-s1a-d2-a1	23	White	500m
F/UTP					
PFC6004LG-KD	PVC	Eca	23	Light Gray	500m
PFL6004DG-KD	LSZH-1	Eca	23	Dark Gray	500m
PFZ6C04DG-CED NEW!	LSZH-3	Dca-s2-d2-a1	23	Dark Gray	500m
S/FTP					
PSY6C04DG-CED NEW!	NA	Cca-s1a-d1-a1	23	Dark Gray	500m
SF/UTP					
PSFL6004DG-KD	LSZH-1	Eca	23	Dark Gray	500m
U/UTP OSP					
PUO6C04BL-CEG	OSP	Fca	23	Black	305m



Category 6A Copper Cable

Part Number	Flammability Rating	EuroClass	AWG	Preferred Color	Length
U/UTP					
PUC6AM04BU-CEG	CM	Eca	23	Blue	305m
PUL6A04WH-KEG	LSZH-1	Eca	23	White	305m
PUL6AM04WH-CEG	LSZH-1	Dca-s2-d2-a1	23	White	305m
PUZ6AM04BU-CEG	LSZH-3	Dca-s2-d2-a1	23	Blue	500m
PUL6ASD04WH-CED	LSZH-1	Dca-s2-d2-a1	26	White	500m
PUZ6ASD04WH-CED	LSZH-3	Dca-s2-d2-a1	26	White	500m
F/UTP					
PFL6X04WH-CEG	LSZH-1	Dca-s2-d2-a1	23	White	305m
PFZ6X04WH-CEG	LSZH-3	Dca-s2-d2-a1	23	White	305m
PFZ6X04WH-CED	LSZH-3	Dca-s2-d2-a1	23	White	500m
U/FTP					
PUFL6X04WH-KD	LSZH-1	Eca	23	White	500m
PUFZ6X04BU-KD	LSZH-3	Dca-s2-d1-a1	23	Blue	500m
PUFY6X04WH-KED NEW!	NA	Cca-s1-d1-a1	23	White	500m
F/FTP					
PFFL6X04WH-CED	LSZH-1	Dca-s2-d2-a1	23	White	500m
PFFY6X04WH-KED NEW!	NA	Cca-s1-d1-a1	23	White	500m

Category 7 Copper Cable

Part Number	Flammability Rating	EuroClass	AWG	Preferred Color	Length
S/FTP					
PSL7004WH-KD	LSZH-1	Eca	23	White	500m
PSL7004WH-CED	LSZH-1	Dca-s1a-d1-a1	23	White	500m
PSW7004WH-CED NEW!	NA	B2ca-s1a-d1-a1	23	White	500m
S/FTP OSP					
PSO7004BL-KED	OSP	Eca	23	Black	500m

Category 7A Copper Cable

Part Number	Flammability Rating	EuroClass	AWG	Preferred Color	Length
S/FTP					
PSL7A04WH-KD	LSZH-1	Dca-s2-d2-a1	23	White	500m



NetKey Category 5e Copper Cable					
Part Number	Flammability Rating	EuroClass	AWG	Preferred Color	Length
U/UTP					
NUC5C04BU-CE	CM	Eca	24	Blue	305m
NUL5C04BU-CE	LSZH-1	Eca	24	Blue	305m
NetKey Category 6 Copper Cable					
Part Number	Flammability Rating	EuroClass	AWG	Preferred Color	Length
U/UTP					
NUC6C04BU-CE	CM	Eca	24	Blue	305m
NUC6CR04BU-CE	CM	Eca	24	Blue	305m
NUL6C04BU-KE	LSZH-1	Eca	24	Blue	305m
NUL6C04BU-CE	LSZH-1	Dca-s2-d2-a1	24	Blue	305m
NUL6CR04BU-CE	LSZH-1	Eca	24	Blue	305m
NUZ6C04BU-CE	LSZH-3	Dca-s1a-d2-a1	24	Blue	305m
NUZ6C04BU-KE NEW!	LSZH-1	Dca-s2-d2-a1	24	Blue	305m
NUY6C04WH-CE NEW!	NA	Cca-s1a-d1-a1	24	White	305m
NetKey Category 6A Copper Cable					
Part Number	Flammability Rating	EuroClass	AWG	Preferred Color	Length
U/UTP					
NUL6X04BU-CEG	LSZH-1	Dca-s2-d2-a1	23	Blue	305m

Standard cable colors are noted. Please contact Panduit Customer Service for availability of other colors.



Fibre Cabling Infrastructure Offering

Legacy Part	EuroClass	Description	Available In
FPDL9**	FADC9**-37	Fiber Indoor Distribution Cable, DcaS1D1A1, 9um Singlemode OS2 ** Fibers	4 - 24 Fiber Count
FPDL5**	FADC5**-37	Fiber Indoor Distribution Cable, DcaS1D1A1, 50um Multimode OM2 ** Fibers	4 - 24 Fiber Count
FPDL6**	FADC6**-37	Fiber Indoor Distribution Cable, DcaS1D1A1, 62.5um Multimode OM1 ** Fibers	4 - 24 Fiber Count
FQDLX**	FADCX**-37	Fiber Indoor Distribution Cable, DcaS1D1A1, 50um Multimode OM3 ** Fibers	4 - 24 Fiber Count
FQDLZ**	FADCZ**-37	Fiber Indoor Distribution Cable, DcaS1D1A1, 50um Multimode OM4 * Fibers	4 - 24 Fiber Count
Legacy Part	EuroClass	Description	Available In
FPCL5**	FACC5**-40	Fiber Indoor-Outdoor Central Tube Cable, EuroClass Eca, 50um Multimode OM2 ** Fibers	4 - 24 Fiber Count
FPCL6**	FACC6**-40	Fiber Indoor-Outdoor Central Tube Cable, EuroClass Eca, 62.5um Multimode OM1 ** Fibers	4 - 24 Fiber Count
FPCL9**	FACC9**-40	Fiber Indoor-Outdoor Central Tube Cable, EuroClass Eca, 9um Singlemode OS2 ** Fibers	4 - 24 Fiber Count
FQCLX**	FACCX**-40	Fiber Indoor-Outdoor Central Tube Cable, EuroClass Eca, 50um Multimode OM3 ** Fibers	4 - 24 Fiber Count
FQCLZ**	FAC CZ**-40	Fiber Indoor-Outdoor Central Tube Cable, EuroClass Eca, 50um Multimode OM4 ** Fibers	4 - 24 Fiber Count
Legacy Part	EuroClass	Description	Available In
FPNL9**	FANC9**-40	Fiber Indoor-Outdoor Stranded Tube Cable, EuroClass Eca, 9um Singlemode OS2 ** Fibers	36 - 144 Fiber Count
FPNL5**	FANC5**-40	Fiber Indoor-Outdoor Stranded Tube Cable, EuroClass Eca, 50um Multimode OM2 ** Fibers	36 - 144 Fiber Count
FPNL6**	FANC6**-40	Fiber Indoor-Outdoor Stranded Tube Cable, EuroClass Eca, 62.5um Multimode OM1 ** Fibers	36 - 144 Fiber Count
FQNLX**	FANCX**-40	Fiber Indoor-Outdoor Stranded Tube Cable, EuroClass Eca, 50um Multimode OM3 ** Fibers	36 - 144 Fiber Count
FQNLZ**	FANCZ**-40	Fiber Indoor-Outdoor Stranded Tube Cable, EuroClass Eca, 50um Multimode OM4 ** Fibers	36 - 144 Fiber Count

Legacy Part	EuroClass	Description	Available In
FPKL5**	FAK5**-40	Fiber Indoor-Outdoor Tight Buffered Cable, EuroClass Eca, 50um Multimode OM2 ** Fibers	2 - 12 Fiber Count
FPKL6**	FAK6**-40	Fiber Indoor-Outdoor Tight Buffered Cable, EuroClass Eca, 62.5um Multimode OM1 ** Fibers	2 - 12 Fiber Count
FPKL9**	FAK9**-40	Fiber Indoor-Outdoor Tight Buffered Cable, EuroClass Eca, 9um Singlemode OS2 ** Fibers	2 - 12 Fiber Count
FQKLX**	FAKCX**-40	Fiber Indoor-Outdoor Tight Buffered Cable, EuroClass Eca, 50um Multimode OM3 ** Fibers	2 - 12 Fiber Count
FQKLZ**	FAK CZ**-40	Fiber Indoor-Outdoor Tight Buffered Cable, EuroClass Eca, 50um Multimode OM4 ** Fibers	2 - 12 Fiber Count

B2ca-s1-d1-a1 and Cca-s1-d1-a1 fibre cables are targeted for availability in 4Q2017

Disclaimer: The information contained herein is for informational purposes only and should not be used as a sole source guide for complying with applicable regulations. Please consult the applicable regulatory body, an attorney or other expert consultant to ensure your compliance with applicable regulations.