

THE PRODUCT PORTFOLIO FOR
SUSTAINABLE DATA INFRASTRUCTURE!

CO₂ Reduction in Cabling

GreenConnect



PRYSMIAN GreenConnect Sustainable Solutions for Data Communication

Lead the Change with Sustainable Connectivity

At Prysmian, sustainability is not just a trend but a clear commitment. Our GreenConnect product line is designed to enable high-performance data communication while significantly reducing environmental impact. Benefit from innovation without compromising on quality and reliability.



What Makes GreenConnect Sustainable?

We have redesigned the key components of our cables with a focus on sustainability:

- **100% Recycled Copper**
No compromises on performance, full commitment to our planet.
- **Al/PET Foil (Shielding)**
The PET component is made from a mix of recycled and new materials, maintaining optimal mechanical properties.
- **LSHF/PE Outer Jacket**
Made from a blend of recycled and new materials, the jacket meets the highest safety standards for low smoke and halogen-free performance (suitable for indoor and outdoor use).
- **Recycled Cable Drum**
Eco-conscious packaging made from a mix of recycled and new plastics – fully recyclable.
- **100% Green Energy in Production**
All GreenConnect products are manufactured using renewable energy sources.

Choose environmentally conscious cabling
without compromising performance

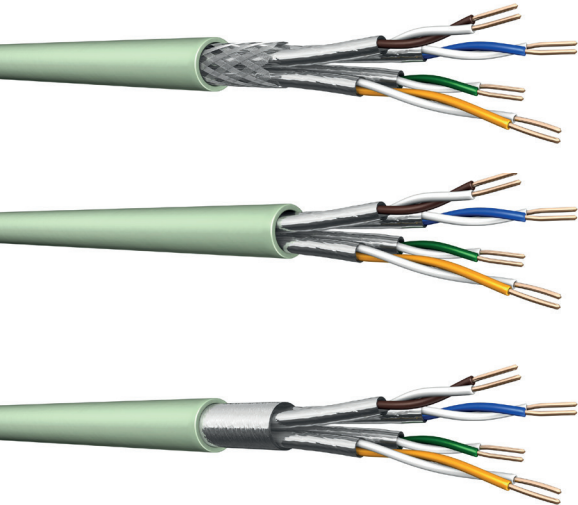
Significant reduction of the CO₂ footprint



GreenConnect cables reduce environmental impact compared to our standard products:

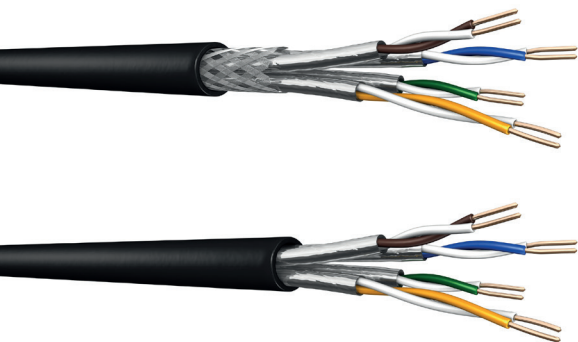
Copper Data Cables

Indoor applications



- **Cat.7 S/FTP**
→ 39% lower CO₂ footprint compared to UC900 SS23
- **Cat.6A U/FTP**
→ 50% lower CO₂ footprint compared to UC500 S23
- **Cat.6A F/FTP**
→ 45% lower CO₂ footprint compared to UC500 S23

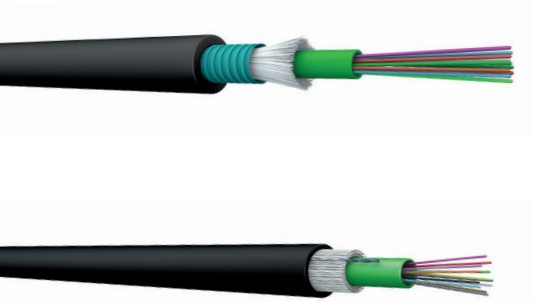
Outdoor Applications



- **Cat.7 S/FTP Outdoor PE**
→ 40% lower CO₂ footprint compared to UC900 SS23 Cat.7 S/FTP PE
- **Cat.6A U/FTP Outdoor PE**
→ 55% lower CO₂ footprint compared to UC500 S23 Cat.6A U/FTP PE

Fiber Data Cables

Outdoor Applications



- **E6GX: GreenConnect O CT CST PE 3.0kN**
→ 20% lower CO₂ footprint compared to UC^{FIBRE} E06a A-D(ZN)(SR)2Y
- **E8GX: GreenConnect O CT PE 3.0kN**
→ 20% lower CO₂ footprint compared to UC^{FIBRE} E08a A-DQ(ZN)B2Y

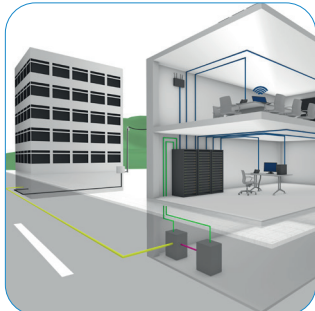
GreenConnect: Sustainable Data Cables for Green Energy

- Designed for smart grids, industrial systems, and building networks
- Eco-friendly packaging emphasizes holistic responsibility across the entire supply chain
- Contributes to real-time monitoring and efficiency in sustainable energy infrastructures

Outdoor applications



Indoor applications



Three-Pillar Sustainability Principle



Metals

- Recycled copper and aluminum



Materials

- Sustainable plastics and cable jackets



Processes

- Localized, resource-efficient production

Copper Data Cable

GreenConnect Cat.7 S/FTP Indoor E_{ca}



Applications

Primary (Campus), Sekundary (Riser), Tertiary(Horizontal), Home Cabling (Smart Home)
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
Power over Ethernet (PoE) / Type 1-4

Shielding Quality

Coupling Resistance	at 1 MHz	12 mΩ /m
	at 10 MHz	10 mΩ /m
	at 30 MHz	30 mΩ /m
Coupling Attenuation		80 dB

Product Code Table

Product Description	Article Number	CPR Class
Prysmian GreenConnect C7 S/FTP Indoor E _{ca} 500DP	60117213	E _{ca}

GreenConnect Cat.7 S/FTP Indoor D_{ca}



Applications

Primary (Campus), Sekundary (Riser), Tertiary(Horizontal), Home Cabling (Smart Home)
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
Power over Ethernet (PoE) / Type 1-4

Shielding Quality

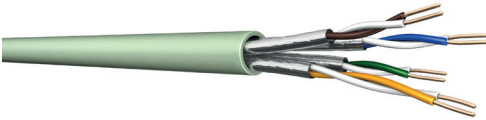
Coupling Resistance	at 1 MHz	5 mΩ /m
	at 10 MHz	5 mΩ /m
	at 30 MHz	10 mΩ /m
Coupling Attenuation		85 dB

Product Code Table

Product Description	Article Number	CPR Class
Prysmian GreenConnect C7 S/FTP Indoor D _{ca} 500DP	60117334	D _{ca} s2 d2 a1

Copper Data Cable

GreenConnect Cat.6A U/FTP Indoor LSHF D_{ca}



Applications

Primary (Campus), Sekundary (Riser), Tertiary(Horizontal), Home Cabling (Smart Home)
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
Power over Ethernet (PoE) / Type 1-4

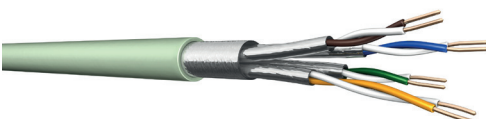
Shielding Quality

Coupling Resistance	at 1 MHz	50 mΩ /m
	at 10 MHz	100 mΩ /m
	at 30 MHz	200 mΩ /m
Coupling Attenuation		55 dB

Product Code Table

Product Description	Article Number	CPR Class
Prysmian GreenConnect Cat.6A U/FTP Indoor LSHF D _{ca} 500DP	60117304	D _{ca} s2 d2 a1

GreenConnect Cat.6A F/FTP Indoor LSHF D_{ca}



Applications

Primary (Campus), Sekundary (Riser), Tertiary(Horizontal), Home Cabling (Smart Home)
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
Power over Ethernet (PoE) / Type 1-4

Shielding Quality

Coupling Resistance	at 1 MHz	50 mΩ /m
	at 10 MHz	100 mΩ /m
	at 30 MHz	200 mΩ /m
Coupling Attenuation		55 dB

Product Code Table

Product Description	Article Number	CPR Class
Prysmian GreenConnect Cat.6A F/FTP Indoor LSHF D _{ca} 500DP	60117354	D _{ca} s2 d2 a1

Copper Data Cable

GreenConnect Cat.7 S/FTP Outdoor PE



Applications

Outdoor
Tertiary(Horizontal),
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
Power over Ethernet (PoE) / Type 1-4

Shielding Quality

Coupling Resistance	at 1 MHz	5 mΩ /m
	at 10 MHz	5 mΩ /m
	at 30 MHz	10 mΩ /m
Coupling Attenuation		85 dB

Product Code Table

Product Description	Article Number
Prysmian GreenConnect Cat.7 S/FTP Outdoor PE 500DP	60111920

Cable Construction

Conductor	Bare copper wire, AWG23
Insulation	Foam-skin polyethylene, Ø 1.4 mm
Twisting	2 wires twisted into a pair
Pair Shielding	Aluminum-coated plastic composite foil
Core Assembly	4 pairs (PiMF) twisted to core
Overall Shielding	Tinned copper braid
Wrapping	Plastic foil
Outer Jacket	PE, black, suitable for direct burial, UV-resistant

GreenConnect Cat.6A U/FTP Outdoor PE



Applications

Outdoor
Tertiary(Horizontal),
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
Power over Ethernet (PoE) / Type 1-4

Shielding Quality

Kopplungswiderstand	at 1 MHz	50 mΩ /m
	at 10 MHz	100 mΩ /m
	at 30 MHz	200 mΩ /m
Kopplungsdämpfung		55 dB

Product Code Table

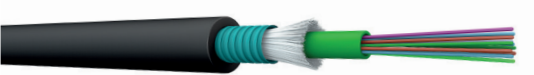
Product Description	Article Number
Prysmian GreenConnect Cat.6A U/FTP Outdoor PE	60111891

Cable Construction

Conductor	Bare copper wire, AWG 23/1
Insulation	Foam-skin polyethylene, Ø 1.35 mm
Twisting	2 wires twisted into a pair
Pair Shielding	Aluminum-coated plastic composite foil Drain wire: Tinned AWG 26
Twisting to Core	4 x 2 pairs twisted to core
Outer Jacket	PE, black, suitable for direct burial, UV-resistant

Fibre Optical Cable

E6GX: GreenConnect O CT CST PE 3.0kN



This Green Connect fibre optic cable incorporates recycled compounds and energy-efficient production methods, resulting in a minimum of 20% reduction in carbon footprint. It is a central loose tube filled with gel and up to 24 fibres used for outdoor applications and direct burial installations. Metallic armoured design with glass yarns, longitudinally water blocked, rodent-proof and PE sheath. Used for LAN and WAN backbones, telecom access lines, fibre to business and fibre to the building drop connections as well as fibre to the home drop and access connections. DIN/VDE: A-DQ(ZN)(SR)B2Y

Standards	
ISO/IEC 11801	Generic telecom cabling for customer premises
EN 50173	Information technology- Generic cabling systems
IEC 60794-1-1	Generic Specification Fibre Optic Cables
IEC 60794-1-21	Mechanical Test Methods
IEC 60794-1-22	Environmental Test Procedures
IEC 60794-3-10	Outdoor cables Duct, directly buried or lashed aerial optical telecommunication cables

Cable design	
Loose tube	ø2.8 mm gel-filled loose tube with 2 – 24 fibres
Strength member	Glass fibre elements
Sheath	1.5 mm black PE sheath

Mechanical properties		
Property	Test method	Value
Nominal outer diameter	-	2 - 24 fibres: 8.5 mm
Nominal weight	-	2 - 24 fibres: 83 kg/km
Maximum tensile strength (dynamic) [N]	E1	3000
Tensile strength (permanent) [N]		
	E1	1000
Compressive strength (crush)	E3	2200N / 10cm
Impact	E4	30J
Min. bending radius, unloaded (permanent)	E11	R = 85 mm
Min. bending radius, loaded (installation)	-	R = 170 mm
Temperature range	F1	Storage: -40°C to +70°C Installation: -15°C to +60°C Operation: -40°C to +70°C

Fibre Optical Cable

E8GX: GreenConnect O CT PE 3.0kN



This Green Connect fibre optic cable incorporates recycled compounds and energy-efficient production methods, resulting in a minimum of 20% reduction in carbon footprint. It is a central loose tube filled with gel and up to 24 fibres used for outdoor applications and direct burial installations. Dielectric armoured design with glass yarns, longitudinally water blocked, rodent-proof and LDPE sheath. Used for LAN and WAN backbones, telecom access lines, fibre to business and fibre to the building drop connections as well as fibre to the home drop and access connections. DIN/VDE: A-DQ(ZN)B2Y.

Standards	
ISO/IEC 11801	Generic telecom cabling for customer premises
EN 50173	Information technology- Generic cabling systems
IEC 60794-1-1	Generic Specification Fibre Optic Cables
IEC 60794-1-21	Mechanical Test Methods
IEC 60794-1-22	Environmental Test Procedures
IEC 60794-3-10	Outdoor cables Duct, directly buried or lashed aerial optical telecommunication cables

Cable design	
Loose tube	ø2.8 mm gel-filled loose tube with 2 – 24 fibres
Strength member	Water-blocked glass fibre elements
Sheath	1.0 mm black PE sheath

Mechanical properties		
Property	Test method	Value
Nominal outer diameter	-	2 - 24 fibres: 7.0 mm
Nominal weight	-	2 - 24 fibres: 48 kg/km
Maximum tensile strength (dynamic) [N]	E1	3000
Tensile strength (permanent) [N]		
	E1	1000
Compressive strength (crush)	E3	2000N / 10cm
Impact	E4	20J
Min. bending radius, unloaded (permanent)	E11	R = 70 mm
Min. bending radius, loaded (installation)	-	R = 140 mm
Temperature range	F1	Storage: -30°C to +60°C Installation: -15°C to +60°C Operation: -30°C to +70°C



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A Prysmian Brand

www.prysmian.com

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more information.

