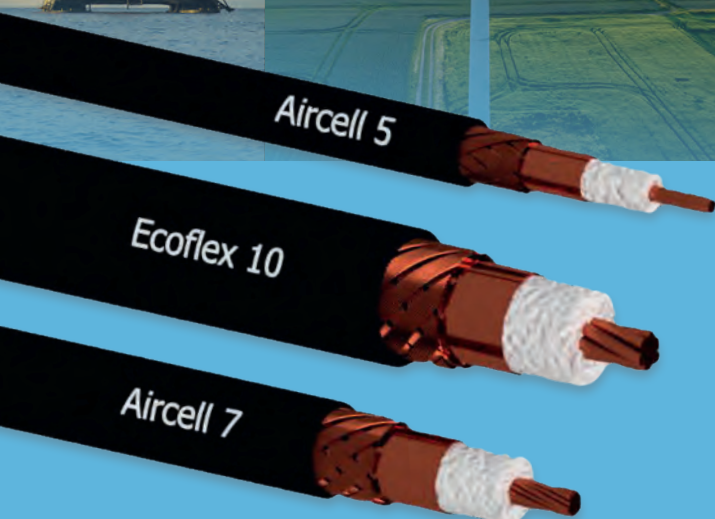


# Coaxial Cables, Connectors, and Adapters



***You need the  
best connection!***

# SSB-Electronic GmbH

## from Engineering Office to RF Specialist

SSB-Electronic was founded as an engineering office for the development of solutions in the field of radio frequency technology and antennas for the maritime sector. In our in-house high-frequency laboratory, our products are tested up to 13 GHz. We place great importance on ensuring that our cables meet the SHF2 standard and are suitable for use throughout the frequency range, minimizing the potential for signal reflections. Our connectors are equipped with Aircom®, and Ecoflex® – have since set standards and Rising demands for fire protection and the increasing use led to the development of Ecoflex Heatex® and SeaTex®

- and Rolf Albert as an engineering office for
- 1989 Introduction of the first coaxial cable
  - 2008 Introduction of halogen-free and flame-retardant coaxial cables under the brand Heatex® for environments with elevated fire protection requirements
  - 2017 Implementation of the quality management system with successful certification according to
  - 2018 Acquisition of VF-Feintechnik GmbH – a company systems in Wiesentheid

### Information

#### Aircell® & Aircom®

- 5 Heatex
- 7 Heatex

#### Ecoflex®

- Ecoflex
- Ecoflex
- Ecoflex
- Ecoflex
- Ecoflex
- Ecoflex 10 Plus Heatex
- Ecoflex
- Ecoflex
- Ecoflex
- Ecoflex 15 Plus Heatex

#### SeaTex®

#### H155 SSB

- H155 SSB
- H155 PE SSB

#### Connectors and Adapters

Coaxial Connectors UHF

#### Handling Instructions

#### Contact





# Our Philosophy – Quality and Sustainability

## Quality

High-quality and flawless products that meet customer requirements are fundamental to customer satisfaction for us. Our high standard of quality extends from thorough

to the highest quality standards. In our high-frequency by our quality assurance team.

Our company is certified according to ISO 9001:2015. We continuously work to ensure and improve the quality of

## Social Responsibility

In addition to product quality, we place great emphasis on workforce. We promote fair and respectful collaboration.

We provide our employees with opportunities for professional development. As an IHK-certified company, we

ations. Through specific offers and measures, we ensure

## Sustainability

ardous substances such as lead, asbestos, or fluorinated integral parts of our corporate philosophy. We consistently

- [Directive 2011/65/EU RoHS](#) (of Hazardous Substances)
- [Directive 2012/19/EU WEEE](#) (Waste Electrical and Electronic Equipment)
- [Regulation 1907/2006/EG REACH](#)





# SSB – Your B2B Partner

connectivity solutions across various industries. With our extensive experience in cables, connectors, and amplifier

Our customers in industry, trade, and the public sector benefit from our comprehensive portfolio of cables, specifically optimized for the requirements of various applications.

***Our customers worldwide come from industries such as:***

Wind Turbine Construction / Energy  
Audio / Video Technology

Our cables not only meet the highest standards of quality and flame-retardant properties. This is crucial in buildings,

resistance to heat, cold, oils, saltwater, UV radiation, and weather influences.

etc., and possess all relevant approvals and certifications

***Further reasons for collaborating with us:***

We provide personalized advice and develop

We conduct all necessary tests and measurements to ensure the quality of our cables.

We ensure fast delivery of your goods.

Upon request, we customize your cables and lines according to your specifications and deliver them ready



SSB Headquarters Lippstadt



# Our Product Range



## Coaxial Cables & Coaxial Connectors



## SDR Technology

Receivers (Perseus, Winradio)



## Radio Electronics

Preamplifiers, Amplifiers  
Power Splitters, Sequencers



## High-Frequency Design

HF

HF Component Design (Power Amplifiers, etc.)



## Accessories

Clamps, Grounding Kits, Lightning Protection

# Assembled Coaxial Cables

Tailored to Your Specifications

Share your application or installation requirements with us.

requests with ease. Unlike many other companies in the

high-frequency testing.

We deliver on promises that others merely make!

Take advantage of our cable configurator at  
[www.ssb-electronic.com](http://www.ssb-electronic.com)



## Your Benefits

- High-quality coaxial cables
- Precision craftsmanship in assembly
- Accurate HF measurements before and after assembly
- Assembly exclusively in Germany
- Detailed test certificate
- Cable testing at the selected frequency in the range of 100 KHz – 20.000 MHz, including a test report
- Swift delivery after ordering
- Special solutions such as phase-matched coaxial cables for antenna arrays



With us, you receive premium coaxial cables

*We guarantee the highest quality for your cable assemblies.  
Speak with us – we look forward to your inquiry!*



+49 (0) 2941 - 93385 - 0

# Fire Classes of Coaxial Cables



construction products, are assigned to specific performance classes based on their fire behavior. Flame retardancy, crucial role. Each fire class entails specific requirements for quality control.

The CPR thus establishes a unified system for the classification, evaluation, and certification of construction products for all EU countries. The aim is to enhance fire safety in buildings. The use of certified cables is intended rescue of individuals in case of a fire.

Since July 1, 2017, our coaxial cables have been classified

[www.ssb-electronic.com](http://www.ssb-electronic.com)

The following overview illustrates the classification of our coaxial cables into fire classes and their suitable

Coaxial Cable	Euroclass according to EN 50575	Safety Requirement in Buildings	Application Area	Classification Criteria	AVCP System (Assessment and Verification of Constancy of Performance)
Aircell 5 Aircell 7 Ecoflex 10 Ecoflex 10 PLUS Ecoflex 15 Ecoflex 15 PLUS Aircom Premium	Eca	low	<b>Cables for Standard Applications</b>  Buildings with low height, low user density, in apartments.	Flame spread EN 60332-1-2 H ≤ 425 mm	<b>System 3</b>  Initial type-testing by third-party notified testing laboratory  Factory production control (FCB) by the manufacturer
Ecoflex 10 PLUS Heatex Ecoflex 10 FRNC	Cca s1 d0 a1	high	<b>Cables for higher fire safety requirements</b>  In high-rise buildings, structural facilities, offices, retail premises, restaurants, hotels, underground garages, schools, dormitories, correctional facilities, leisure/amusement parks, etc.	Flame spread EN 60332-1-2 H ≤ 425 mm  Heat release, vertical flame spread EN 50399 FS ≤ 2.0 m THR ≤ 30 MJ max. HRR ≤ 60 kW FIGRA ≤ 300 W/s Ignition source = 20.5 kW	<b>System 1+</b>  Initial type-testing by third-party notified product certification body  Regular factory audits by notified certification body  Continuous audit testing of samples by third-party notified product certification body  Factory production control (FCB) by the manufacturer
Ecoflex 15 PLUS Heatex Ecoflex 15 FRNC	Cca s2 d2 a1			Smoke emission EN 50399/EN 61034-2 s1, s1a, s1b, s2, s3	
Aircell 5 Heatex Aircell 7 Heatex	Cca s1 d0 a1			Acidity/Corrosiveness EN 60754-2 a1, a2, a3  Burning Droplets EN 50399 d0, d1, d2	

**Explanation:**

**Smoke emission**

TSP ≤ 50 m<sup>2</sup>, max. SPR ≤ 0.25 m<sup>2</sup>/s

s1a: Transmittance ≥ 80 %

s1b: Transmittance ≥ 60 % < 80 %

TSP ≤ 400 m<sup>2</sup>, max. SPR ≤ 1.5 m<sup>2</sup>/s

s3: Not specified

**Dripping of burning material**

d2: Not specified

**Acidity of combustion gases**

a1: Slightly corrosive smoke gases, conductivity < 2.5 µS/mm and pH > 4.3

a2: Average corrosive smoke gases, conductivity < 10 µS/mm and pH > 4.3

a3: Not specified

**Abbreviations:**

H: Vertical Flame Spread (mm)

FS: Vertical Flame Spread (m)

THR: Total Heat Release

HRR: Max. Heat Release Rate

SPR: Max. Smoke Production Rate (m<sup>2</sup>/s)



# Areas of Application



## IT & Computer Technology

*Highly flexible and low attenuation coaxial cables*

Aircell 5 Heatex	Ecoflex 5	Ecoflex 15 FRNC
	Ecoflex 7	Ecoflex 15 Plus
	Ecoflex 10	Ecoflex 15 Plus Heatex
Aircell 7 Heatex	Ecoflex 10 FRNC	H155 SSB
	Ecoflex 10 Plus	H155 PE SSB
	Ecoflex 10 Plus Heatex	
	Ecoflex 15	



## Audio & Video

*Highly flexible and low attenuation coaxial cables*

Ecoflex 7



## Fire Protection

*Flame-retardant coaxial cables with Euroclass Cca according to EN 50575*

Aircell 5 Heatex	Ecoflex 10 Plus Heatex
Aircell 7 Heatex	Ecoflex 15 FRNC
Ecoflex 10 FRNC	Ecoflex 15 Plus Heatex



## Building Construction

*Coaxial cables with Euroclasses Fca, Dca, and Cca according to EN 50575*

Aircell 5 Heatex	Ecoflex 5	Ecoflex 10 Plus Heatex
	Ecoflex 7	Ecoflex 15
	Ecoflex 10	Ecoflex 15 FRNC
Aircell 7 Heatex	Ecoflex 10 FRNC	Ecoflex 15 Plus
	Ecoflex 10 Plus	Ecoflex 15 Plus Heatex



## Mobile Communications

*Intermodulation-resistant coaxial cables*

	Ecoflex 10 Plus	Ecoflex 15 Plus Heatex
	Ecoflex 10 Plus Heatex	H155 SSB
	Ecoflex 15	H155 PE SSB
Ecoflex 10	Ecoflex 15 FRNC	
Ecoflex 10 FRNC	Ecoflex 15 Plus	



## Bus Construction

*Flame-retardant coaxial cables with UN/ECE-R 118 approval*

Ecoflex 10



## Railway Construction

*Flame-retardant coaxial cables certified according to EN 45545-2*

Aircell 5 Heatex  
Aircell 7 Heatex  
Ecoflex 10 Plus Heatex  
Ecoflex 15 Plus Heatex



## Shipbuilding

*Coaxial cables with DNV certification for harsh environmental conditions*



## Wind Turbine Construction

*Coaxial cables with DNV certification for harsh environmental conditions*

# Aircell® 5



Aircell 5 is a flexible and thin coaxial cable with a 5 mm outer diameter designed for the frequency range from DC to 10 GHz. Its low-loss characteristics in relation to its

make it the preferred choice not only for Wireless LAN

advanced manufacturing techniques and a low-loss PE-LLC dielectric with a foaming rate of more than 70%. This unique dielectric not only ensures low attenuation

100% tight copper foil and an additional shield braiding of bare copper wires with 70% coverage. The copper foil

bends. The black PVC jacket of Aircell 5 is UV-stabilized.

microwave-rated cable is required, suitable for numerous

## Key features

Impedance	50 ± 2 Ω
Attenuation at 1 GHz/100 m	29.54 dB
<b>f max</b>	<b>10 GHz</b>
<b>Euroclass according to EN 50575</b>	<b>Eca</b>

## Characteristics

- (VDE 0819), Tab. 2/A (HD 624.3)
- Jacket material according to DIN EN 50290-2-22 (VDE 0819), compound type TM 52 (HD 624.2)
- 
- 
- RoHS compliant (Directive 2011/65/EC & 2015/863/EU RoHS 3)
- UV-resistant

## Technical Data

	100 %
	70 %
	PVC black, UV-stabilized
Weight	
	-55 to +85 °C transport & fixed installation

## Electrical Data at 20 °C

Capacitance (1 kHz)	
Velocity factor	
Shielding attenuation 1 GHz	≥ 90 dB
	≤ 20.5 Ω/km
	22 Ω/km
	≥ 10 GΩ*km
Test Voltage DC (wire/screen)	4 kV
	2.5 kV

## Aircell 5 RG 58/U RG 213/U

Velocity factor	
	10 MHz
	100 MHz
	500 MHz
	1000 MHz
	3000 MHz

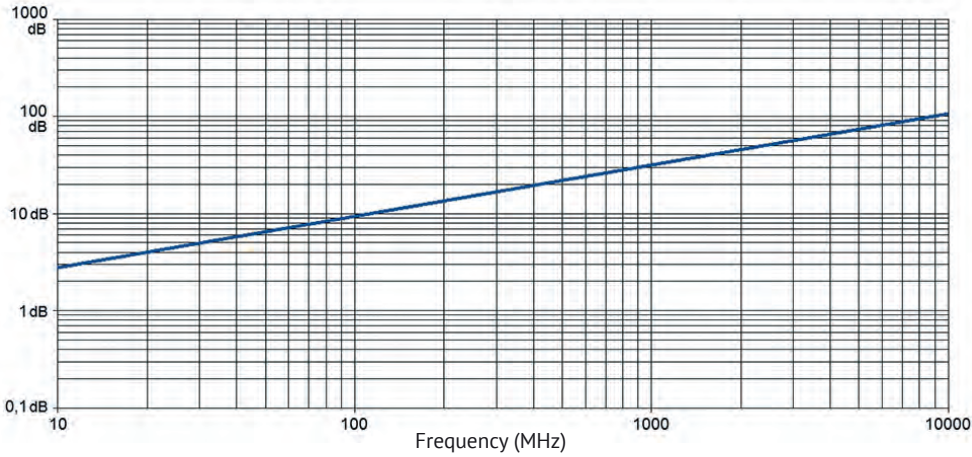
## Typ. Attenuation (dB/100 m at 20 °C)

5 MHz	1000 MHz
10 MHz	1296 MHz
50 MHz	1500 MHz
100 MHz	1800 MHz
144 MHz	2000 MHz
200 MHz	2400 MHz
300 MHz	3000 MHz
432 MHz	4000 MHz
500 MHz	5000 MHz
800 MHz	6000 MHz
	10000 MHz

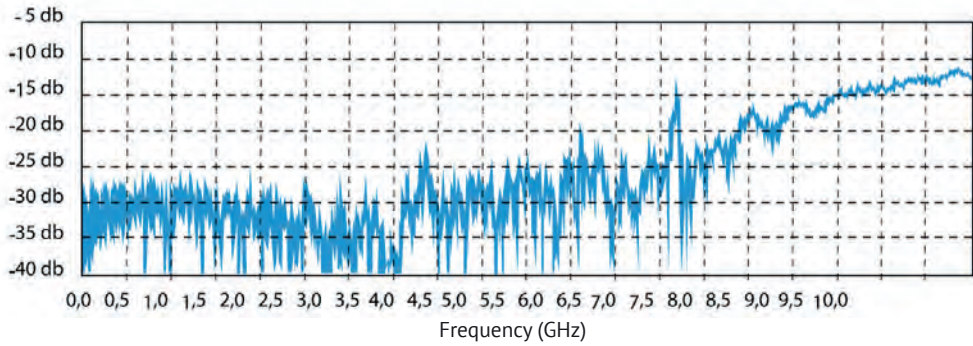
## Max. Power Handling (W at 40 °C)

10 MHz	3000 MHz
100 MHz	4000 MHz
500 MHz	5000 MHz
1000 MHz	6000 MHz
2000 MHz	10000 MHz

## Typ. Attenuation (dB/100 m at 20 °C)



## Typ. Return Loss





# Aircell® 5 Heatex®

low-loss, halogen-free, flame-retardant,



Aircell 5 Heatex is a flexible and thin coaxial cable with a 5 mm outer diameter designed for the frequency range from DC to 10 GHz. Its low-loss characteristics and compatibility

only for Wireless LAN applications but also for general

The low attenuation of Aircell 5 Heatex is achieved through advanced manufacturing techniques and a low-loss PE-LLC dielectric with a foaming rate of more than 70%. This unique dielectric not only ensures low attenuation but also

5 Heatex features a solid inner conductor extruded from

include double shielding, consisting of overlapping 100%

copper wires with 70% coverage. The copper foil is coated

flame-retardant copolymer. Thanks to this Heatex jacket, the cable has a low fire load, low flame propagation, limited

corrosive gases. With the fire protection rating Cca, Aircell 5 Heatex is approved for installation in public buildings.

Aircell 5 Heatex is certified for railway applications for both interior and exterior use, meeting the requirements

## Key features

Impedance	50 ± 2 Ω
Attenuation at 1 GHz/100 m	29.54 dB
f max	10 GHz
Euroclass according to EN 50575	Cca

## Characteristics

- Certified according to EN 45545-2:2013+A1:2015 and EN 45545-2:2020 Requirement Sets R15 + R16 for railway applications
- 
- 
- Vertical flame spread tested according to EN 50305:2002 Sec. 9.1.2 (Bundle test for cables Ø ≤ 6 mm)
- Halogen-free tested according to DIN EN 50306-1:2003
- Halogen acid gas content tested according to DIN EN 60754-1:2015 (HCl < 0.5 %)
- 
- DIN EN 60754-2:2015 (pH value > 4.3)
- 
- DIN EN 60754-2:2015 (< 10.0 µS/mm)
- 
- EN 60684-2:2011 Sec. 45.2 Procedure A (< 0.1 %)
- 
- (VDE 0819), Tab. 2/A (HD 624.3)
- Jacket material according to DIN EN 50290-2-27 (HD 624.7)
- RoHS compliant (Directive 2011/65/EC & 2015/863/EU RoHS 3)
- Fire-resistant, low smoke, halogen-free (LSZH)
- UV-resistant

## Technical Data

	100 %
	70 %
Weight	
	-55 to +85 °C transport & fixed installation

## Electrical Data at 20 °C

Capacitance (1 kHz)	
Velocity factor	
Shielding attenuation 1 GHz	≥ 90 dB
	≤ 20.5 Ω/km
	22 Ω/km
	≥ 10 GΩ*km
Test Voltage DC (wire/screen)	4 kV
	2.5 kV

## Aircell 5 Heatex RG 58/U RG 213/U

Velocity factor	
	10 MHz
	100 MHz
	500 MHz
	1000 MHz
	3000 MHz

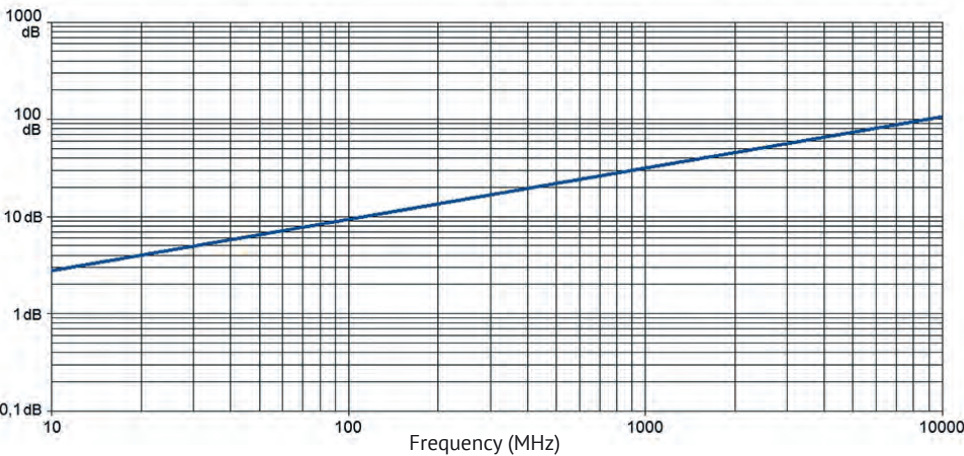
## Typ. Attenuation (dB/100 m at 20 °C)

5 MHz	1000 MHz
10 MHz	1296 MHz
50 MHz	1500 MHz
100 MHz	1800 MHz
144 MHz	2000 MHz
200 MHz	2400 MHz
300 MHz	3000 MHz
432 MHz	4000 MHz
500 MHz	5000 MHz
800 MHz	6000 MHz
	10000 MHz

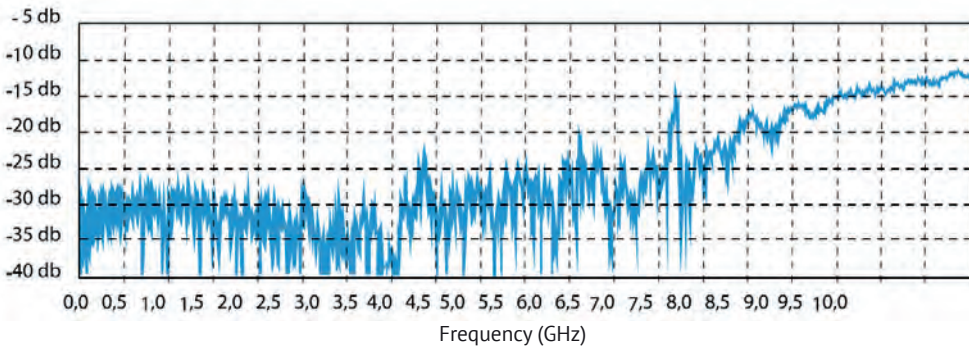
## Max. Power Handling (W at 40 °C)

10 MHz	3000 MHz
100 MHz	4000 MHz
500 MHz	5000 MHz
1000 MHz	6000 MHz
2000 MHz	10000 MHz

## Typ. Attenuation (dB/100 m at 20 °C)



## Typ. Return Loss





# Aircell<sup>®</sup> 7

highly flexible, low-loss,



Aircell 7 is an ultraflexible coaxial cable designed for frequencies up to 6 GHz. Due to its low loss in relation

advanced manufacturing techniques and low-loss PE-LLC dielectric with a foaming rate of more than 70%. This unique dielectric also offers water resistance and long-term

the cable its remarkable flexibility. Further advantages is constructed of overlapping 100% tight copper foil and 85% coverage. The copper foil has an applied PE coating black PVC jacket of Aircell 7 is UV-stabilized.

Aircell 7 is the right choice when a super flexible, low loss, and microwave-rated cable is required. It can be



### Key features

Impedance	50 ± 2 Ω
Attenuation at 1 GHz/100 m	20.44 dB
f max	6 GHz
Euroclass according to EN 50575	Eca

### Characteristics

- Jacket material according to DIN EN 50290-2-22 (VDE 0819), compound type TM 52 (HD 624.2)
- RoHS compliant (Directive 2011/65/EC & 2015/863/EU RoHS 3)
- UV-resistant

### Technical Data

	1.9 mm (19 × 0.38 mm, 14 AWG)
	100 %
	85 %
	PVC black, UV-stabilized
Weight	
	-55 to +85 °C transport & fixed installation

### Electrical Data at 20 °C

Capacitance (1 kHz)	
Velocity factor	
Shielding attenuation 1 GHz	≥ 90 dB
	≤ 9.0 Ω/km
	8.7 Ω/km
	≥ 10 GΩ*km
Test Voltage DC (wire/screen)	10 kV
	8 kV

### Aircell 7 RG 213/U RG 58/U

Velocity factor	
	10 MHz
	100 MHz
	500 MHz
	1000 MHz
	3000 MHz

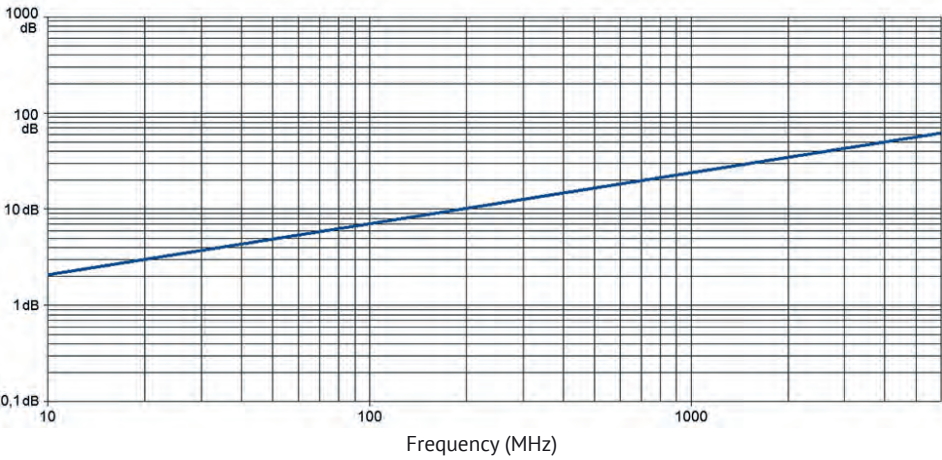
### Typ. Attenuation (dB/100 m at 20 °C)

5 MHz	1000 MHz
10 MHz	1296 MHz
50 MHz	1500 MHz
100 MHz	1800 MHz
144 MHz	2000 MHz
200 MHz	2400 MHz
300 MHz	3000 MHz
432 MHz	4000 MHz
500 MHz	5000 MHz
800 MHz	6000 MHz

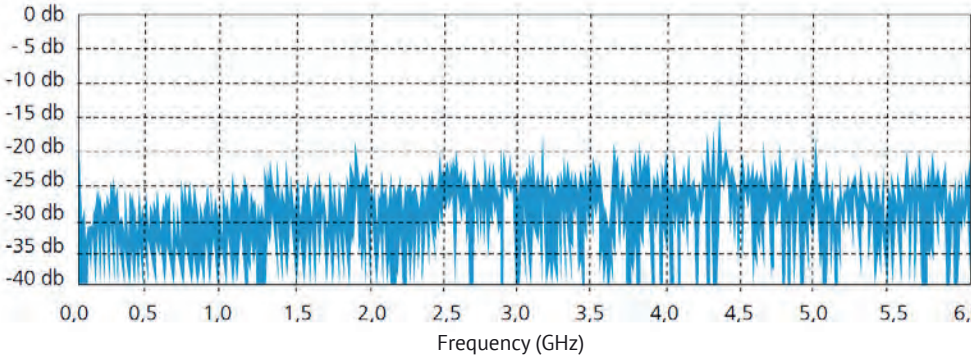
### Max. Power Handling (W at 40 °C)

10 MHz	2400 MHz
100 MHz	3000 MHz
500 MHz	4000 MHz
1000 MHz	5000 MHz
2000 MHz	6000 MHz

### Typ. Attenuation (dB/100 m at 20 °C)



### Typ. Return Loss





# Aircell® 7 Heatex®

highly flexible, halogen-free, flame-retardant,



Aircell 7 Heatex is an ultraflexible coaxial cable designed for frequencies up to 6 GHz. Due to its low loss in relation

The low attenuation of Aircell 7 Heatex is achieved by using advanced manufacturing techniques and low loss PE-LLC dielectric with a foaming rate of more than 70%. This unique dielectric also offers water resistance and long

the cable its remarkable flexibility. Further advantages

constructed of overlapping 100 % tight copper foil and

85 % coverage. The copper foil has an applied PE coating

jacket of the cable is made of a halogen-free and flame retardant copolymer. Due to this Heatex jacket, the cable has a low fire load, low flame propagation, limited smoke

gases. With the fire protection rating Cca Aircell 7 Heatex

Aircell 7 Heatex is certified for railway applications for interior and exterior use according requirement sets R15

## Key features

Impedance	50 ± 2 Ω
Attenuation at 1 GHz/100 m	20.44 dB
f max	6 GHz
Euroclass according to EN 50575	Cca

## Characteristics

- Certified according to EN 45545-2:2013+A1:2015 and EN 45545-2:2020 Requirement Sets R15 + R16 for railway applications
- 
- 
- Vertical flame spread tested according to EN 50305:2002 Sec. 9.1.1. (for cables with a diameter 6 mm < Ø < 12 mm)
- Halogen-free tested according to DIN EN 50306-1:2003
- Halogen acid gas content tested according to DIN EN 60754-1:2015 (HCl < 0.5 %)
- 
- DIN EN 60754-2:2015 (pH value > 4.3)
- 
- DIN EN 60754-2:2015 (< 10.0 µS/mm)
- 
- Sec. 45.2 Procedure A (< 0.1 %).
- Jacket material according to DIN EN 50290-2-27 (HD 624.7)
- RoHS compliant (Directive 2011/65/EC & 2015/863/EU RoHS 3)
- Fire-resistant, low smoke, halogen-free (LSZH)
- UV-resistant

## Technical Data

1.9 mm (19 × 0.38 mm, 14 AWG)
100 %
85 %
Weight

## Electrical Data at 20 °C

Capacitance (1 kHz)	
Velocity factor	
Shielding attenuation 1 GHz	≥ 90 dB
	≤ 9.0 Ω/km
	8.7 Ω/km
	≥ 10 GΩ*km
Test Voltage DC (wire/screen)	10 kV
	8 kV

## Aircell 7 Heatex RG 213/U RG 58/U

Velocity factor
10 MHz
100 MHz
500 MHz
1000 MHz
3000 MHz

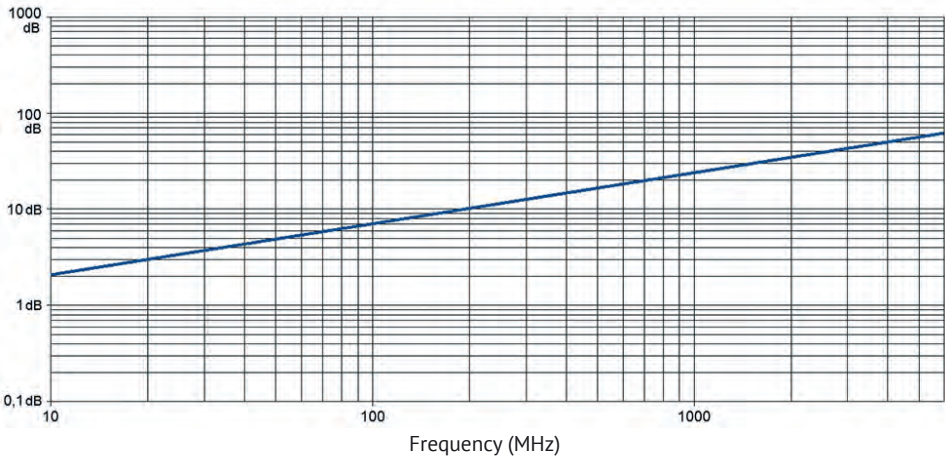
## Typ. Attenuation (dB/100 m at 20 °C)

5 MHz	1000 MHz
10 MHz	1296 MHz
50 MHz	1500 MHz
100 MHz	1800 MHz
144 MHz	2000 MHz
200 MHz	2400 MHz
300 MHz	3000 MHz
432 MHz	4000 MHz
500 MHz	5000 MHz
800 MHz	6000 MHz

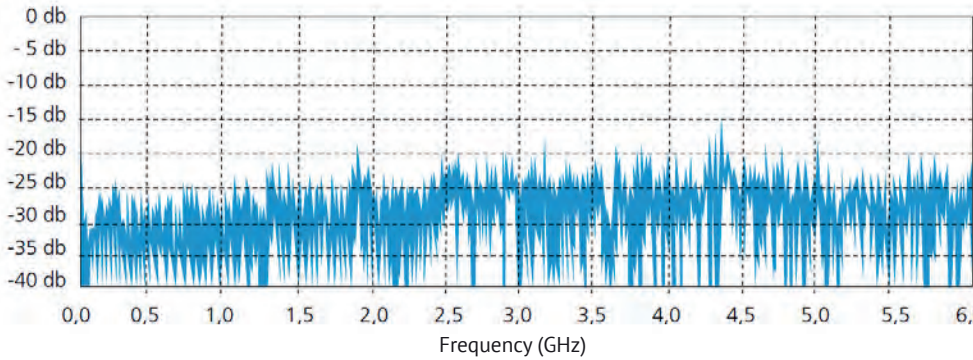
## Max. Power Handling (W at 40 °C)

10 MHz	2400 MHz
100 MHz	3000 MHz
500 MHz	4000 MHz
1000 MHz	5000 MHz
2000 MHz	6000 MHz

## Typ. Attenuation (dB/100 m at 20 °C)



## Typ. Return Loss





# Aircom® Premium

very low-loss up to 12 GHz



with an upper frequency limit of 12 GHz. It is characterized

entire frequency range. Additionally, this new cable from

braid covering 75 %. The foil is PE-coated on the inside,

bending radius. The black PVC outer jacket of Aircom Premium is UV-stabilized.

telecommunications and radio technology: it is flexible, low

## Key features

Impedance	50 ± 2 Ω
Attenuation at 1 GHz/100 m	11.88 dB
<b>f max</b>	<b>12 GHz</b>
<b>Euroclass according to EN 50575</b>	<b>Eca</b>

## Characteristics

- Jacket material according to DIN EN 50290-2-22 (VDE 0819), compound type TM 52 (HD 624.2)
- 
- RoHS compliant (Directive 2011/65/EC & 2015/863/EU RoHS 3)
- UV-resistant

## Technical Data

	Hybrid CCA – bare copper-clad aluminium
	100 %
	75 %
	PVC black, UV-stabilized
Weight	
	-55 to +85 °C transport & fixed installation

## Electrical Data at 20 °C

Capacitance (1 kHz)	
Velocity factor	
Shielding attenuation 1 GHz	≥ 90 dB
	≤ 5.0 Ω/km
	7.3 Ω/km
	≥ 10 GΩ*km
Test Voltage DC (wire/screen)	9 kV
	7 kV

## Aircom Premium RG 213/U RG 58/U

Velocity factor	
	10 MHz
	100 MHz
	500 MHz
	1000 MHz
	3000 MHz

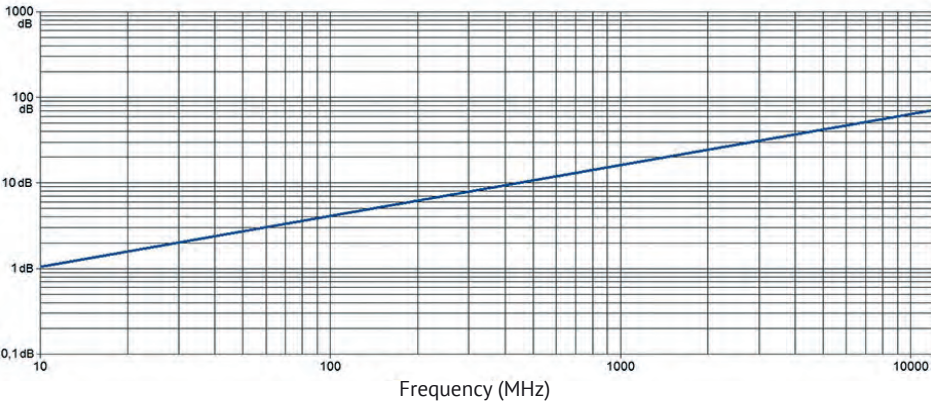
## Typ. Attenuation (dB/100 m at 20 °C)

5 MHz	1500 MHz
10 MHz	1800 MHz
50 MHz	2000 MHz
100 MHz	2400 MHz
144 MHz	3000 MHz
200 MHz	4000 MHz
300 MHz	5000 MHz
432 MHz	6000 MHz
500 MHz	8000 MHz
800 MHz	10000 MHz
1000 MHz	12000 MHz
1296 MHz	

## Max. Power Handling (W at 40 °C)

10 MHz	3000 MHz
100 MHz	4000 MHz
500 MHz	5000 MHz
1000 MHz	6000 MHz
2000 MHz	8000 MHz
2400 MHz	10000 MHz
	12000 MHz

## Typ. Attenuation (dB/100 m at 20°C)





# Aircom® Premium FRNC

ultra low-loss up to 12 GHz



cable with an upper frequency limit of 12 GHz. It is character

entire frequency range. Additionally, this new cable from

braid covering 75 %. The foil is PE-coated on the inside,

flame-retardant material FRNC (Flame Retardant Non Corrosive). This gives Aircom Premium FRNC a low fire load, low fire spread, and minimal smoke development.

flexible, low in attenuation, and secure against radiation

## Key features

Impedance	50 ± 2 Ω
Attenuation at 1 GHz/100 m	11.88 dB
<b>f max</b>	<b>12 GHz</b>
<b>Euroclass according to EN 50575</b>	<b>Fca</b>

## Characteristics

- Jacket material according to DIN EN 50290-2-27 (HD 624.7)
- Manufactured according to DIN EN 45545-2 Table 5 R15 HL2
- RoHS compliant (Directive 2011/65/EC & 2015/863/EU RoHS 3)
- Fire-resistant, low smoke, halogen-free (LSZH)
- UV-resistant

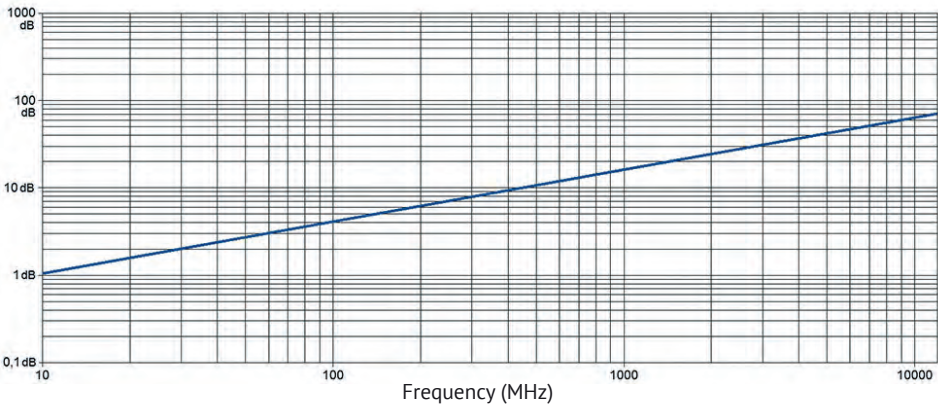
## Technical Data

Hybrid CCA – bare copper-clad aluminium
100 %
75 %
Weight
-55 to +85 °C transport & fixed installation

## Electrical Data at 20 °C

Capacitance (1 kHz)	
Velocity factor	
Shielding attenuation 1 GHz	≥ 90 dB
	≤ 5.0 Ω/km
	7.3 Ω/km
	≥ 10 GΩ*km
Test Voltage DC (wire/screen)	9 kV
	7 kV

## Typ. Attenuation (dB/100 m at 20°C)



## Aircom Premium FRNC RG 213/U RG 58/U

Velocity factor
10 MHz
100 MHz
500 MHz
1000 MHz
3000 MHz

## Typ. Attenuation (dB/100 m at 20 °C)

5 MHz	1500 MHz
10 MHz	1800 MHz
50 MHz	2000 MHz
100 MHz	2400 MHz
144 MHz	3000 MHz
200 MHz	4000 MHz
300 MHz	5000 MHz
432 MHz	6000 MHz
500 MHz	8000 MHz
800 MHz	10000 MHz
1000 MHz	12000 MHz

## Max. Power Handling (W at 40 °C)

10 MHz	3000 MHz
100 MHz	4000 MHz
500 MHz	5000 MHz
1000 MHz	6000 MHz
2000 MHz	8000 MHz
2400 MHz	10000 MHz
	12000 MHz



# Aircom<sup>®</sup> 15

ultra low-loss up to 10 GHz



a maximum frequency of 10 GHz. It is distinguished by

impurities across the entire frequency range, contributing

braiding made of tinned copper wires with 70% coverage. The black PVC jacket of Aircom 15 is UV-stabilized. This

### Key features

Impedance	50 ± 2 Ω
Attenuation at 1 GHz/100 m	8.7 dB
<b>f max</b>	<b>10 GHz</b>
<b>Euroclass according to EN 50575</b>	<b>Fca</b>

### Characteristics

- 
- 
- 
- (VDE 0819), Table L/MD (HD 624.3)
- Jacket material according to DIN EN 50290-2-22 (VDE 0819), compound type TM 52 (HD 624.2)
- RoHS compliant (Directive 2011/65/EC & 2015/863/EU RoHS 3)
- UV-resistant

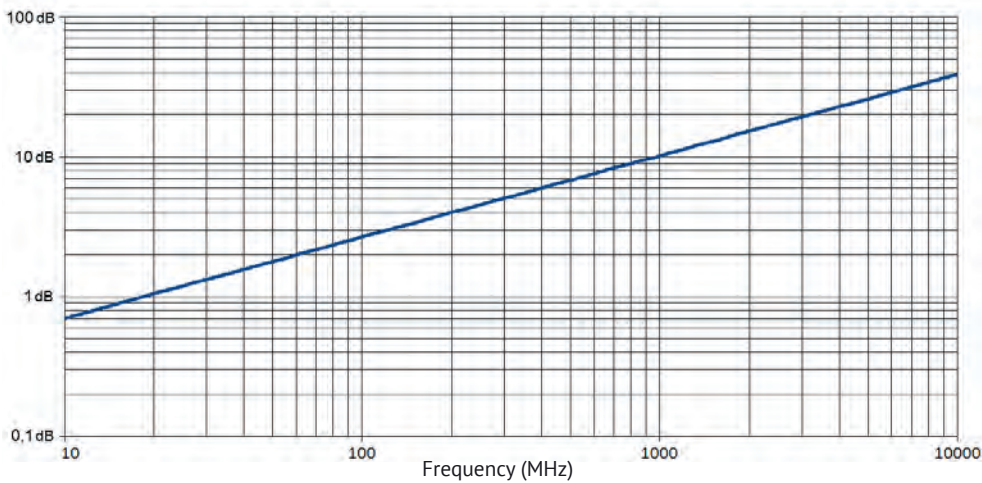
### Technical Data

	Hybrid CCA – bare copper-clad aluminium
	100 %
	70 %
	PVC black, UV-stabilized
Weight	
	-55 to +85 °C transport & fixed installation

### Electrical Data at 20 °C

Capacitance (1 kHz)	
Velocity factor	
Shielding attenuation 1 GHz	≥ 80 dB
	≤ 2.0 Ω/km
	5 Ω/km
	≥ 10 GΩ*km
Test Voltage DC (wire/screen)	9 kV
	7 kV

### Typ. Attenuation (dB/100 m at 20°C)



### Aircom 15 RG 213/U RG 58/U

Velocity factor	
	10 MHz
	100 MHz
	500 MHz
	1000 MHz
	3000 MHz

### Typ. Attenuation (dB/100 m at 20 °C)

10 MHz	1296 MHz
20 MHz	1500 MHz
50 MHz	1800 MHz
100 MHz	2000 MHz
144 MHz	2400 MHz
200 MHz	3000 MHz
300 MHz	4000 MHz
432 MHz	5000 MHz
500 MHz	6000 MHz
800 MHz	8000 MHz
1000 MHz	10000 MHz

### Max. Power Handling (W at 40 °C)

10 MHz	3000 MHz
100 MHz	5000 MHz
500 MHz	6000 MHz
1000 MHz	8000 MHz
2000 MHz	10000 MHz
2400 MHz	



# Ecoflex<sup>®</sup> 5

and extremely flexible



Ecoflex 5 is a thin and extremely flexible coaxial cable designed for frequencies up to 6 GHz. Due to its low loss

The low attenuation values of Ecoflex 5 are achieved by using advanced manufacturing techniques and low

70 %. This unique dielectric also offers water resistance and long term stability. The inner conductor of Ecoflex

its remarkable flexibility. Further advantages of this cable

of overlapping 100 % tight copper foil and an additional shield braiding of bare copper wires with 80 % coverage.

foil cracking due to short radius bends. The black PVC jacket of Ecoflex 5 is UV-stabilized.

Ecoflex 5 is an innovative coaxial cable, which is the right choice, when an extremely flexible, very low loss, and microwave rated cable is required. It can be used for

### Key features

Impedance	50 ± 2 Ω
Attenuation at 1 GHz/100 m	26.13 dB
<b>f max</b>	<b>6 GHz</b>
<b>Euroclass according to EN 50575</b>	<b>Fca</b>

### Characteristics

- (VDE 0819), Tab. 2/A (HD 624.3)
- Jacket material according to DIN EN 50290-2-22 (VDE 0819), compound type TM 52 (HD 624.2)
- 
- RoHS compliant (Directive 2011/65/EC & 2015/863/EU RoHS 3)
- UV-resistant

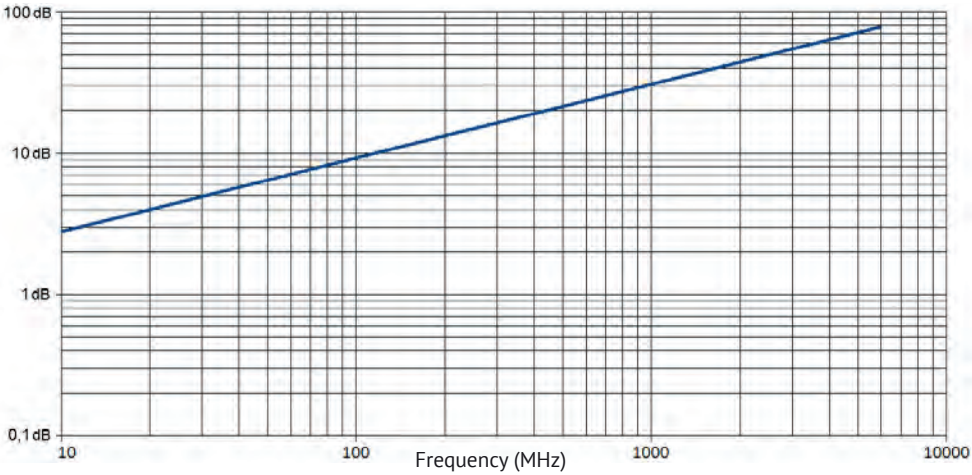
### Technical Data

	1.44 mm (19 × 0.287 mm, 17 AWG)
	100 %
	80 %
	PVC black
Weight	
	-55 to +85 °C transport & fixed installation

### Electrical Data at 20 °C

Capacitance (1 kHz)	≈ 82 nF/km
Velocity factor	
Shielding attenuation 1 GHz	≥ 85 dB
	≤ 15 Ω/km
	17 Ω/km
	≥ 5 GΩ*km
Test Voltage DC (wire/screen)	4 kV
	2.5 kV

### Typ. Attenuation (dB/100 m at 20 °C)



### Ecoflex 5 RG 58/U RG 213/U

Velocity factor	
	10 MHz
	100 MHz
	500 MHz
	1000 MHz
	3000 MHz

### Typ. Attenuation (dB/100 m at 20 °C)

10 MHz	1000 MHz
20 MHz	1296 MHz
50 MHz	1500 MHz
100 MHz	1800 MHz
144 MHz	2000 MHz
200 MHz	2400 MHz
300 MHz	3000 MHz
432 MHz	4000 MHz
500 MHz	5000 MHz
800 MHz	6000 MHz

### Max. Power Handling (W at 40 °C)

10 MHz	1000 MHz
20 MHz	2000 MHz
50 MHz	3000 MHz
100 MHz	4000 MHz
500 MHz	6000 MHz



# Ecoflex<sup>®</sup> 7

extremely low-loss and highly flexible



Ecoflex 7 is a highly flexible coaxial cable designed for the frequency range up to 6 GHz. The extremely low

in high-frequency technology.

The excellent attenuation values of Ecoflex 7 are achieved

content of over 70 %. This material is also resistant to moisture. The inner conductor of Ecoflex 7 consists of 19

for extraordinary flexibility of the cable. To achieve good shielding attenuation, the outer conductor of Ecoflex 7 is

degree of 85 %.

PVC outer jacket of Ecoflex 7 is UV-stabilized.

Ecoflex 7 is an innovative and versatile coaxial cable suitable for numerous applications, being extremely flexible,

## Key features

Impedance	50 ± 2 Ω
Attenuation at 1 GHz/100 m	18.43 dB
<b>f max</b>	<b>6 GHz</b>
<b>Euroclass according to EN 50575</b>	<b>Eca</b>

## Characteristics

- Jacket material according to DIN EN 50290-2-22 (VDE 0819), compound type TM 52 (HD 624.2)
- 
- 
- RoHS compliant (Directive 2011/65/EC & 2015/863/EU RoHS 3)
- UV-resistant

## Technical Data

	1.9 mm (19 × 0.38 mm, 14 AWG)
	100 %
	85 %
	PVC black, UV-resistant
Weight	
	-55 to +85 °C transport & fixed installation

## Electrical Data at 20 °C

Capacitance (1 kHz)	
Velocity factor	
Shielding attenuation 1 GHz	≥ 90 dB
	≤ 9.0 Ω/km
	8.7 Ω/km
	≥ 10 GΩ*km
Test Voltage DC (wire/screen)	10 kV
	8 kV

## Ecoflex 7 RG 213/U RG 58/U

Velocity factor	
	10 MHz
	100 MHz
	500 MHz
	1000 MHz
	3000 MHz

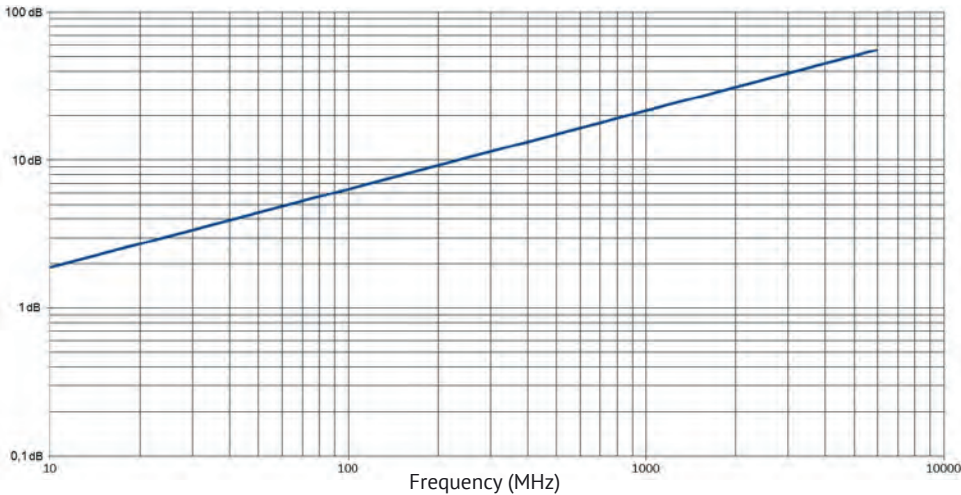
## Typ. Attenuation (dB/100 m at 20 °C)

5 MHz	1000 MHz
10 MHz	1296 MHz
50 MHz	1500 MHz
100 MHz	1800 MHz
144 MHz	2000 MHz
200 MHz	2400 MHz
300 MHz	3000 MHz
432 MHz	4000 MHz
500 MHz	5000 MHz
800 MHz	6000 MHz

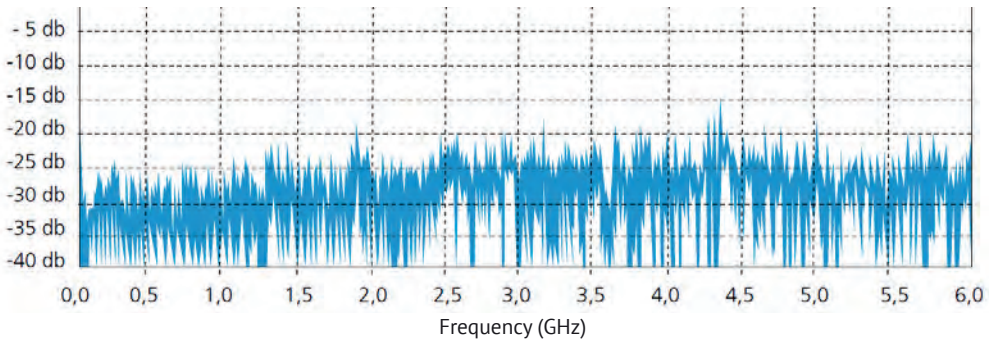
## Max. Power Handling (W at 40 °C)

10 MHz	2400 MHz
100 MHz	3000 MHz
500 MHz	4000 MHz
1000 MHz	5000 MHz
2000 MHz	6000 MHz

## Typ. Attenuation (dB/100 m at 20 °C)



## Typ. Return Loss





# Ecoflex<sup>®</sup> 10

extremely flexible and low-loss



Ecoflex 10 is a flexible and very low-loss 50 ohm coaxial cable designed for the frequency range up to 6 GHz.

70% enable low attenuation values that set standards for flexible coaxial cables of this size.

The high flexibility of Ecoflex 10 is ensured by a 7-strand

of > 90 dB at 1 GHz.

The black PVC outer jacket of Ecoflex 10 is UV-stabilized. To simplify installation, a high-quality solder-free N connector

minutes without special tools. Ecoflex 10 is a modern coaxial cable for all applications in high-frequency technology: low attenuation, flexible, radiation-resistant, and usable

### Key features

Impedance	50 ± 2 Ω
Attenuation at 1 GHz/100 m	13.49 dB
f max	6 GHz
Euroclass according to EN 50575	Eca

### Characteristics

- Jacket material according to DIN EN 50290-2-22 (VDE 0819), compound type TM 52 (HD 624.2)
- 
- 
- RoHS compliant (Directive 2011/65/EC & 2015/863/EU RoHS 3)
- UV-resistant

### Technical Data

	2.85 mm (7 × 1.0 mm, 10 AWG)
	100 %
	75 %
	PVC black, UV-stabilized
Weight	
	-55 to +85 °C transport & fixed installation

### Electrical Data at 20 °C

Capacitance (1 kHz)	
Velocity factor	
Shielding attenuation 1 GHz	≥ 90 dB
	≤ 3.5 Ω/km
	6.6 Ω/km
	≥ 10 GΩ*km
Test Voltage DC (wire/screen)	7 kV
	5 kV

### Typ. Attenuation (dB/100 m at 20 °C)

### Ecoflex 10 RG 213/U RG 58/U

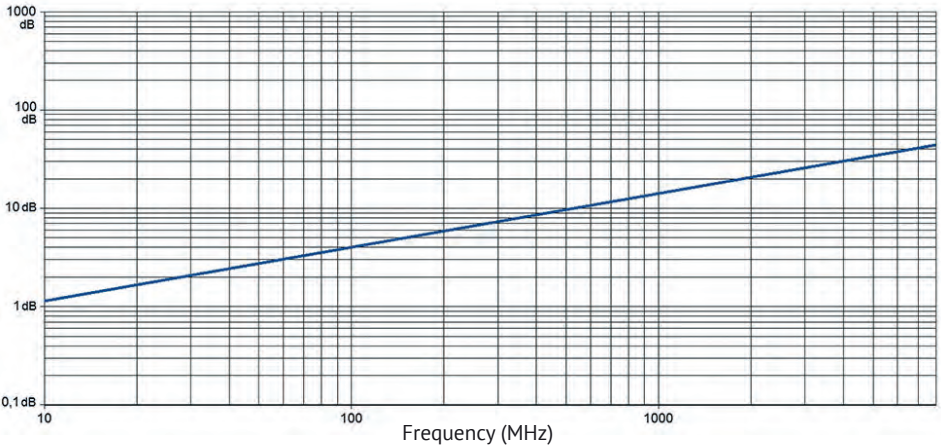
Velocity factor	
	10 MHz
	100 MHz
	500 MHz
	1000 MHz
	3000 MHz

### Typ. Attenuation (dB/100 m at 20 °C)

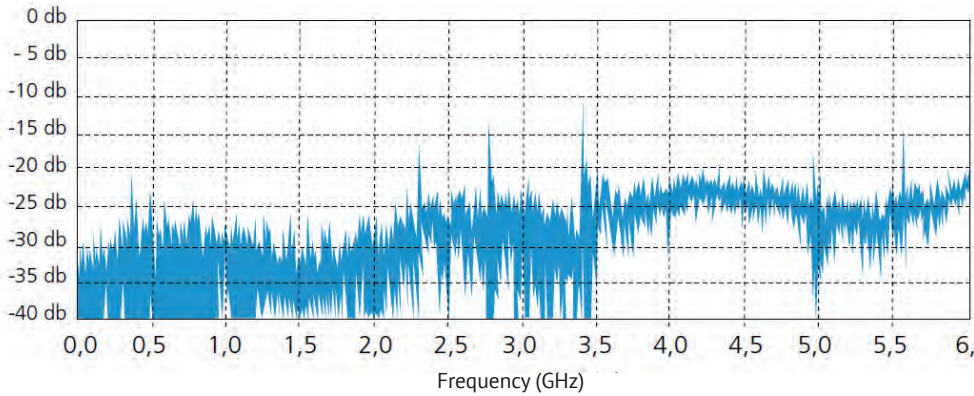
5 MHz	1000 MHz
10 MHz	1296 MHz
50 MHz	1500 MHz
100 MHz	1800 MHz
144 MHz	2000 MHz
200 MHz	2400 MHz
300 MHz	3000 MHz
432 MHz	4000 MHz
500 MHz	5000 MHz
800 MHz	6000 MHz

### Max. Power Handling (W at 40 °C)

10 MHz	2400 MHz
100 MHz	3000 MHz
500 MHz	4000 MHz
1000 MHz	5000 MHz
2000 MHz	6000 MHz



### Typ. Return Loss





# Ecoflex<sup>®</sup> 10 FRNC

extremely flexible, low-loss



Ecoflex 10 FRNC is a flexible and very low-loss 50 ohm coaxial cable designed for the frequency range up to 6 GHz. State-of-the-art production methods and the use of over 70% enable low attenuation values that set standards for flexible coaxial cables of this size.

The high flexibility of Ecoflex 10 FRNC is ensured by a

effectiveness of > 90 dB at 1 GHz.

copolymer, the halogen-free, flame-retardant material FRNC (Flame Retardant Non Corrosive). Therefore, Ecoflex 10 FRNC has low fire load, low fire propagation, and minimal smoke production. Due to the fire protection class Cca, Ecoflex 10 FRNC is suitable for installation in public

### Key features

Impedance	50 ± 2 Ω
Attenuation at 1 GHz/100 m	13.49 dB
<b>f max</b>	<b>6 GHz</b>
<b>Euroclass according to EN 50575</b>	<b>Cca</b>

### Characteristics

- Certified according to EN 50575:2014 + A1:2016 for applications in buildings with requirements for fire behavior
- 
- Heat release tested according to DIN EN 50399:2017-02
- Vertical flame spread tested according to DIN EN 50399:2017-02
- 
- 
- DIN EN 60754-2:2015-08 (pH value > 4.3)
- 
- DIN EN 60754-2:2015-08 (< 2.5 µS/mm)
- 
- Jacket material according to DIN EN 50290-2-27 (HD 624.7)
- RoHS compliant (Directive 2011/65/EC & 2015/863/EU RoHS 3)
- Fire-resistant, low smoke, halogen-free (LSZH)
- UV-resistant
- Manufactured according to DIN EN 45545-2 Table 5 R15 HL2

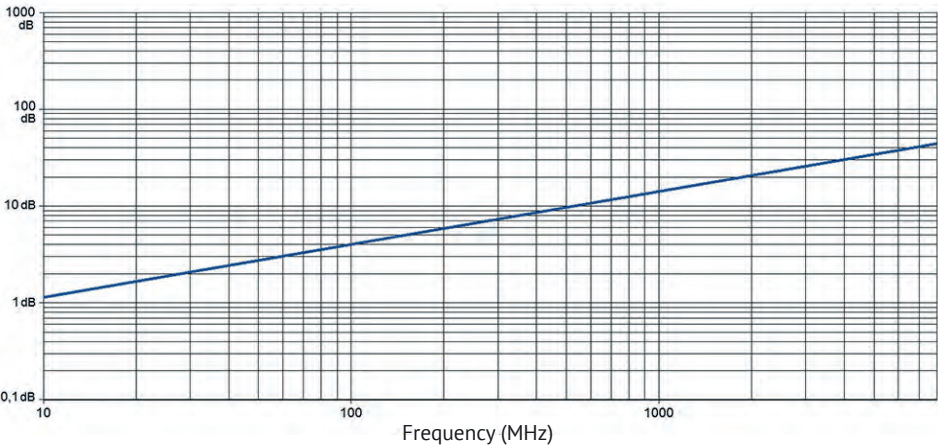
### Technical Data

2.85 mm (7 × 1.0 mm, 10 AWG)
100 %
75 %
highly flexible thermoplastic copolymer (FRNC)
Weight
-55 to +85 °C transport & fixed installation

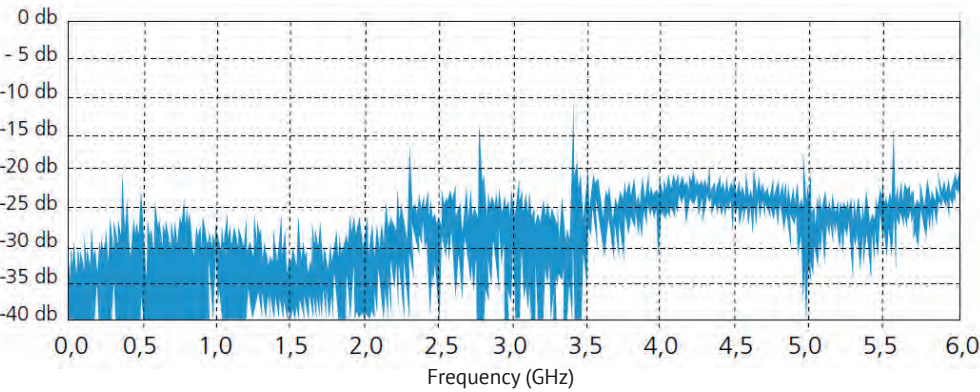
### Electrical Data at 20 °C

Capacitance (1 kHz)	
Velocity factor	
Shielding attenuation 1 GHz	≥ 90 dB
	≤ 3.5 Ω/km
	6.6 Ω/km
	≥ 10 GΩ*km
Test Voltage DC (wire/screen)	7 kV
	5 kV

### Typ. Attenuation (dB/100 m at 20 °C)



### Typ. Return Loss



### Ecoflex 10 FRNC RG 213/U RG 58/U

Velocity factor
10 MHz
100 MHz
500 MHz
1000 MHz
3000 MHz

### Typ. Attenuation (dB/100 m at 20 °C)

5 MHz	1000 MHz
10 MHz	1296 MHz
50 MHz	1500 MHz
100 MHz	1800 MHz
144 MHz	2000 MHz
200 MHz	2400 MHz
300 MHz	3000 MHz
432 MHz	4000 MHz
500 MHz	5000 MHz
800 MHz	6000 MHz

### Max. Power Handling (W at 40 °C)

10 MHz	2400 MHz
100 MHz	3000 MHz
500 MHz	4000 MHz
1000 MHz	5000 MHz
2000 MHz	6000 MHz



# Ecoflex<sup>®</sup> 10 Plus

extremely flexible, low-loss,  
and suitable for up to 8 GHz



Ecoflex 10 Plus is a highly flexible, low-loss coaxial cable specifically designed for operation up to 8 GHz.

70 % enable very low attenuation values. The Ecoflex 10 Plus sets new standards for flexible coaxial cables.

The high flexibility of Ecoflex 10 Plus is ensured by

effectiveness of > 90 dB at 1 GHz. The copper foil has a

forming due to small bending radii. The black PVC outer jacket of Ecoflex 10 Plus is UV-stabilized.

developed for the Ecoflex 10 Plus. The connector can be installed in a few minutes without special tools. Ecoflex 10

high-frequency technology: low attenuation, ultra-flexible,

## Key features

Impedance	50 ± 2 Ω
Attenuation at 1 GHz/100 m	13.49 dB
<b>f max</b>	<b>8 GHz</b>
<b>Euroclass according to EN 50575</b>	<b>Eca</b>

## Characteristics

- Jacket material according to DIN EN 50290-2-22 (VDE 0819), compound type TM 52 (HD 624.2)
- 
- RoHS compliant (Directive 2011/65/EC & 2015/863/EU RoHS 3)
- UV-resistant

## Technical Data

	Hybrid CCA – copper-clad aluminium stranded
	2.85 mm (7 × 1.0 mm, 10 AWG)
	100 %
	75 %
	PVC black, UV-stabilized
Weight	
	-55 to +85 °C transport & fixed installation

## Electrical Data at 20 °C

Capacitance (1 kHz)	
Velocity factor	
Shielding attenuation 1 GHz	≥ 90 dB
	≤ 5.4 Ω/km
	6.6 Ω/km
	≥ 10 GΩ*km
Test Voltage DC (wire/screen)	7 kV
	5 kV

## Ecoflex 10 Plus RG 213/U RG 58/U

Velocity factor	
	10 MHz
	100 MHz
	500 MHz
	1000 MHz
	3000 MHz

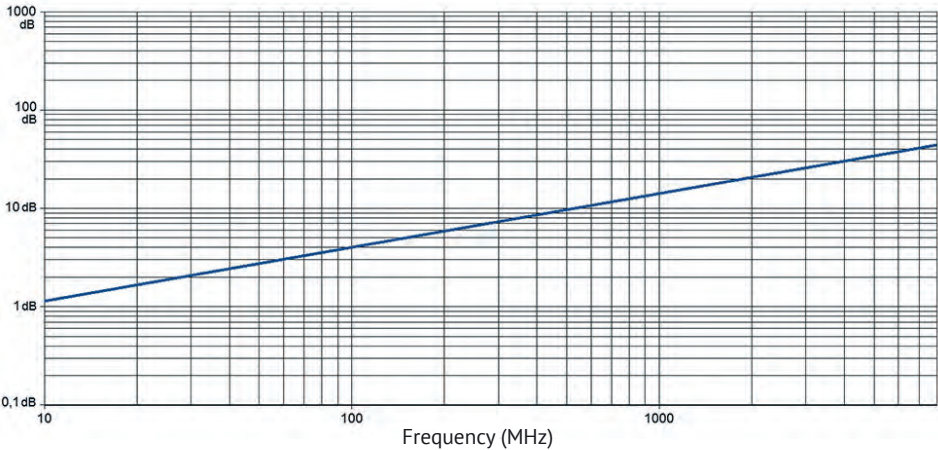
## Typ. Attenuation (dB/100 m at 20 °C)

5 MHz	1000 MHz
10 MHz	1296 MHz
50 MHz	1500 MHz
100 MHz	1800 MHz
144 MHz	2000 MHz
200 MHz	2400 MHz
300 MHz	3000 MHz
432 MHz	4000 MHz
500 MHz	5000 MHz
800 MHz	6000 MHz
	8000 MHz

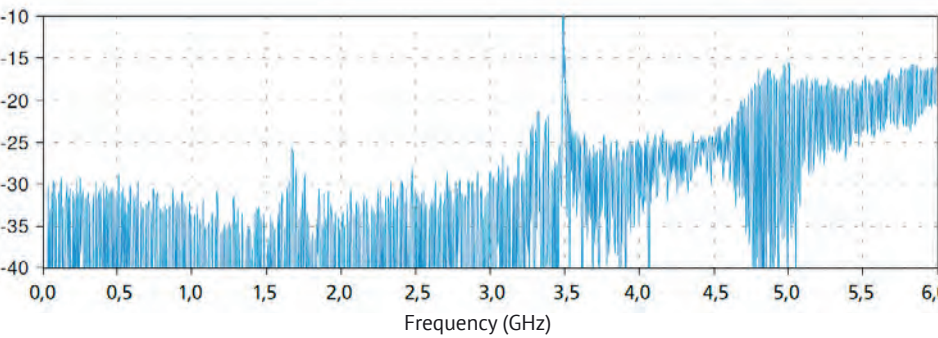
## Max. Power Handling (W at 40 °C)

10 MHz	2400 MHz
100 MHz	3000 MHz
500 MHz	4000 MHz
1000 MHz	5000 MHz
2000 MHz	6000 MHz
	8000 MHz

## Typ. Attenuation (dB/100 m at 20°C)



## Typ. Return Loss





# Ecoflex® 10 Plus Heatex®

flame-retardant, halogen-free,



Ecoflex 10 Plus Heatex is a halogen-free and flame-retard

Ecoflex cables with Heatex jackets are flame-resistant and have minimal fire propagation. Heatex jackets are

a fire. Heatex jackets are halogen-free and do not contain reactive elements such as fluorine, chlorine, and bromine.

significant property damage. The UV stability of the robust Heatex jacket allows for exterior use without limitations.

Ecoflex 10 Plus Heatex features a 7-strand hybrid inner

properties are significantly better than those of conventional

ensure a high shielding effectiveness of > 90 dB at 1 GHz.

Due to its Cca fire protection class, Ecoflex 10 Plus Heatex is suitable for installation in public buildings. Ecoflex 10 Plus Heatex is certified for railway applications for interior/ exterior use according to the R15 and R16 requirement

## Key features

Impedance	50 ± 2 Ω
Attenuation at 1 GHz/100 m	13.49 dB
f max	8 GHz
Euroclass according to EN 50575	Cca

## Characteristics

- Certified according to EN 45545-2:2013+A1:2015 and EN 45545-2:2020 Requirement Sets R15 + R16 for railway applications
- 
- 
- Vertical flame spread tested according to EN 50305:2002 Sec. 9.1.1. (for cables with a diameter 6 mm < Ø < 12 mm)
- Halogen-free tested according to DIN EN 50306-1:2003
- Halogen acid gas content tested according to DIN EN 60754-1:2015 (HCl < 0.5 %)
- 
- DIN EN 60754-2:2015 (pH value > 4.3)
- 
- DIN EN 60754-2:2015 (< 10.0 µS/mm)
- 
- EN 60684-2:2011 Sec. 45.2 Procedure A (< 0.1 %)
- Jacket material according to DIN EN 50290-2-27 (HD 624.7)
- RoHS compliant (Directive 2011/65/EC & 2015/863/EU RoHS 3)
- Fire-resistant, low smoke, halogen-free (LSZH)
- UV-resistant

## Technical Data

Hybrid CCA – copper-clad aluminium stranded
2.85 mm (7 × 1.0 mm, 10 AWG)
100 %
75 %
highly flexible thermoplastic copolymer (FRNC)
Weight
-55 to +85 °C transport & fixed installation

## Electrical Data at 20 °C

Capacitance (1 kHz)	
Velocity factor	
Shielding attenuation 1 GHz	≥ 90 dB
	≤ 5.1 Ω/km
	6.6 Ω/km
	≥ 10 GΩ*km
Test Voltage DC (wire/screen)	7 kV
	5 kV

## Ecoflex 10 Plus Heatex RG 213/U RG 58/U

Velocity factor
10 MHz
100 MHz
500 MHz
1000 MHz
3000 MHz

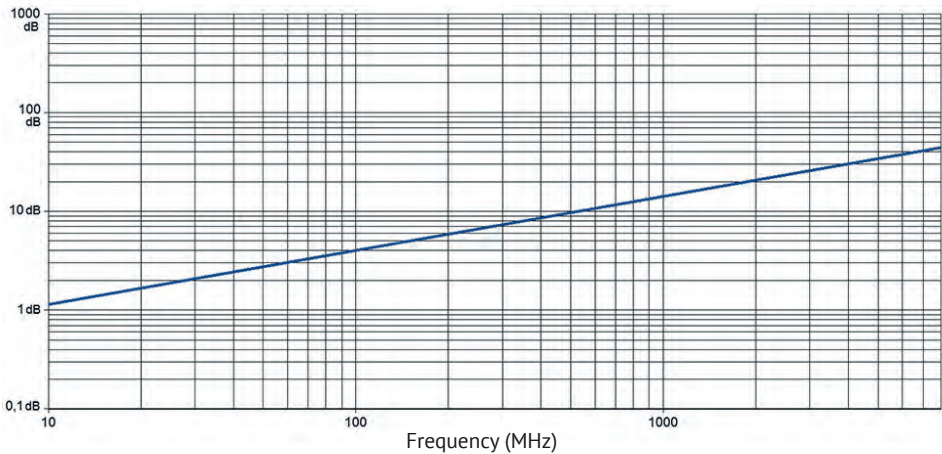
## Typ. Attenuation (dB/100 m at 20 °C)

5 MHz	1000 MHz
10 MHz	1296 MHz
50 MHz	1500 MHz
100 MHz	1800 MHz
144 MHz	2000 MHz
200 MHz	2400 MHz
300 MHz	3000 MHz
432 MHz	4000 MHz
500 MHz	5000 MHz
800 MHz	6000 MHz
	8000 MHz

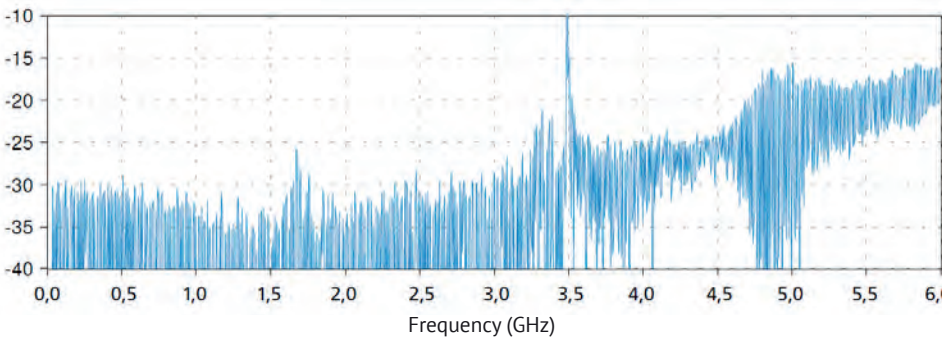
## Max. Power Handling (W at 40 °C)

10 MHz	2400 MHz
100 MHz	3000 MHz
500 MHz	4000 MHz
1000 MHz	5000 MHz
2000 MHz	6000 MHz
	8000 MHz

## Typ. Attenuation (dB/100 m at 20 °C)



## Typ. Return Loss





# Ecoflex® 15

flexible, low-loss,



Ecoflex 15 is a flexible and very low-loss 50 ohm coaxial cable for the frequency range up to 6 GHz. State-of-the-art

PE-LLC dielectric with a gas content of over 70 % enable

The special design of Ecoflex 15 combines the excellent

conductor with the easy installation of flexible coaxial cables with stranded inner conductors. The good flexibility of Ecoflex 15 is ensured by a 7-strand stranded

of > 90 dB at 1 GHz.

The black PVC outer jacket of Ecoflex 15 is UV-stabilized.

UHF, and 7-16 DIN standards have been developed, which

Ecoflex 15 is a modern coaxial cable for all applications in high-frequency technology: low attenuation, flexible,

every “dB” counts, Ecoflex 15 offers significant advantages.

## Key features

Impedance	50 ± 2 Ω
Attenuation at 1 GHz/100 m	9.80 dB
<b>f max</b>	<b>6 GHz</b>
<b>Euroclass according to EN 50575</b>	<b>Eca</b>

## Characteristics

- Jacket material according to DIN EN 50290-2-22 (VDE 0819), compound type TM 52 (HD 624.2)
- 
- RoHS compliant (Directive 2011/65/EC & 2015/863/EU RoHS 3)
- UV-resistant

## Technical Data

	100 %
	75 %
	PVC black, UV-stabilized
Weight	
	-55 to +85 °C transport & fixed installation

## Electrical Data at 20 °C

Capacitance (1 kHz)	
Velocity factor	
Shielding attenuation 1 GHz	≥ 90 dB
	≤ 1.5 Ω/km
	5.0 Ω/km
	≥ 10 GΩ*km
Test Voltage DC (wire/screen)	7 kV
	5 kV

## Ecoflex 15 RG 213/U RG 58/U

Velocity factor	
	10 MHz
	100 MHz
	500 MHz
	1000 MHz
	3000 MHz

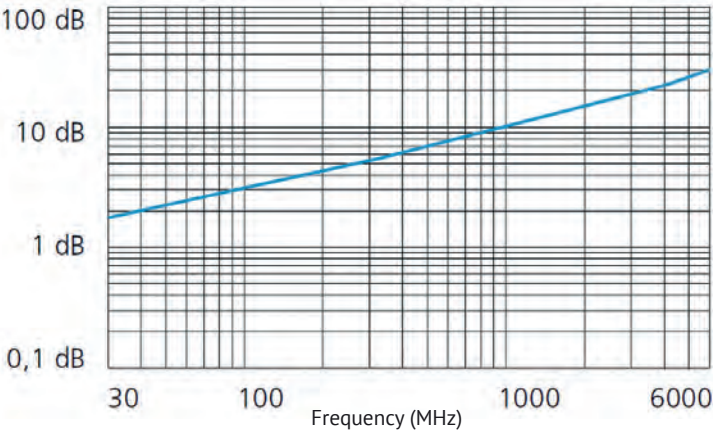
## Typ. Attenuation (dB/100 m at 20 °C)

5 MHz	1000 MHz
10 MHz	1296 MHz
50 MHz	1500 MHz
100 MHz	1800 MHz
144 MHz	2000 MHz
200 MHz	2400 MHz
300 MHz	3000 MHz
432 MHz	4000 MHz
500 MHz	5000 MHz
800 MHz	6000 MHz

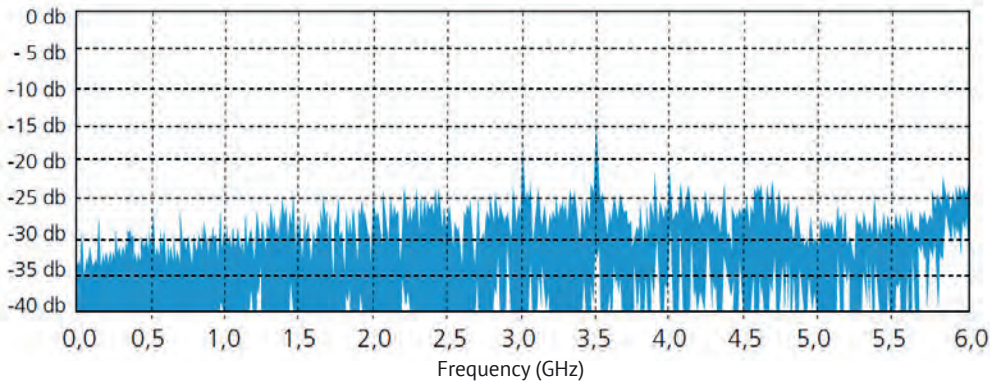
## Max. Power Handling (W at 40 °C)

10 MHz	2400 MHz
100 MHz	3000 MHz
500 MHz	4000 MHz
1000 MHz	5000 MHz
2000 MHz	6000 MHz

## Typ. Attenuation (dB/100 m at 20 °C)



## Typ. Return Loss





# Ecoflex<sup>®</sup> 15 FRNC

flexible, very low-loss, stray radiation resistant,



Ecoflex 15 FRNC is a flexible and very low attenuation 50 ohm coaxial cable for the frequency range up to 6 GHz.

70 % enable low attenuation values.

The special design of Ecoflex 15 FRNC combines the

flexible coaxial cables with stranded inner conductors. The good flexibility of Ecoflex 15 FRNC is ensured by a

effectiveness of > 90 dB at 1 GHz.

moplastic copolymer, the halogen-free, flame-retardant

makes Ecoflex 15 FRNC have a low fire load, low flame

fire protection class Cca, Ecoflex 15 FRNC is suitable for

## Key features

Impedance	50 ± 2 Ω
Attenuation at 1 GHz/100 m	9.80 dB
<b>f max</b>	<b>6 GHz</b>
<b>Euroclass according to EN 50575</b>	<b>Cca</b>

## Characteristics

- Certified according to EN 50575:2014 + A1:2016 for applications in buildings with requirements for fire behavior
- 
- Heat release tested according to DIN EN 50399:2017-02
- Vertical flame spread tested according to DIN EN 50399:2017-02
- 
- 
- DIN EN 60754-2:2015-08 (pH value > 4.3)
- 
- DIN EN 60754-2:2015-08 (< 2.5 µS/mm)
- 
- Jacket material according to DIN EN 50290-2-27 (HD 624.7)
- RoHS compliant (Directive 2011/65/EC & 2015/863/EU RoHS 3)
- Fire-resistant, low smoke, halogen-free (LSZH)
- UV-resistant
- Manufactured according to DIN EN 45545-2 Table 5 R15 HL2

## Technical Data

	100 %
	75 %
	highly flexible thermoplastic copolymer (FRNC)
Weight	
	-55 to +85 °C transport & fixed installation

## Electrical Data at 20 °C

Capacitance (1 kHz)	
Velocity factor	
Shielding attenuation 1 GHz	≥ 90 dB
	≤ 2.5 Ω/km
	5.0 Ω/km
	≥ 10 GΩ*km
Test Voltage DC (wire/screen)	7 kV
	5 kV

## Ecoflex 15 FRNC RG 213/U RG 58/U

Velocity factor	
	10 MHz
	100 MHz
	500 MHz
	1000 MHz
	3000 MHz

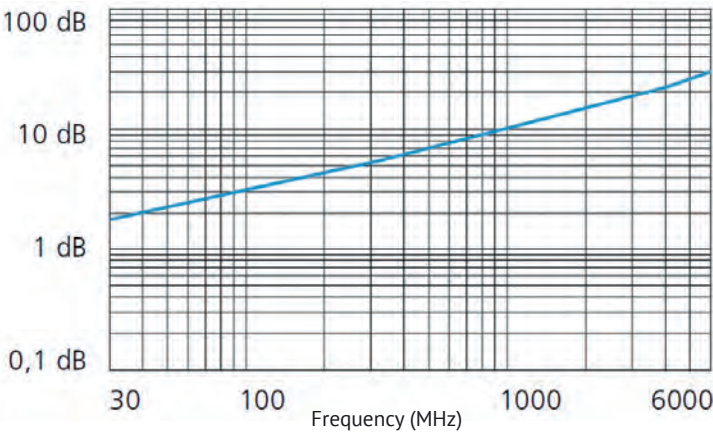
## Typ. Attenuation (dB/100 m at 20 °C)

5 MHz	1000 MHz
10 MHz	1296 MHz
50 MHz	1500 MHz
100 MHz	1800 MHz
144 MHz	2000 MHz
200 MHz	2400 MHz
300 MHz	3000 MHz
432 MHz	4000 MHz
500 MHz	5000 MHz
800 MHz	6000 MHz

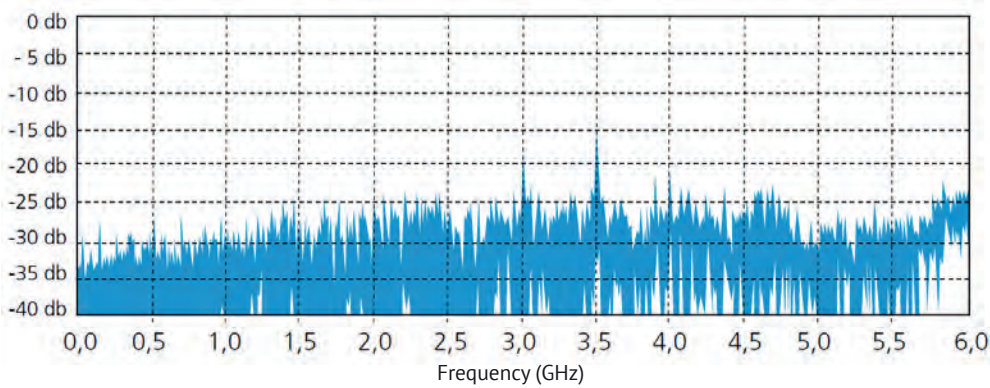
## Max. Power Handling (W at 40 °C)

10 MHz	2400 MHz
100 MHz	3000 MHz
500 MHz	4000 MHz
1000 MHz	5000 MHz
2000 MHz	6000 MHz

## Typ. Attenuation (dB/100 m at 20 °C)



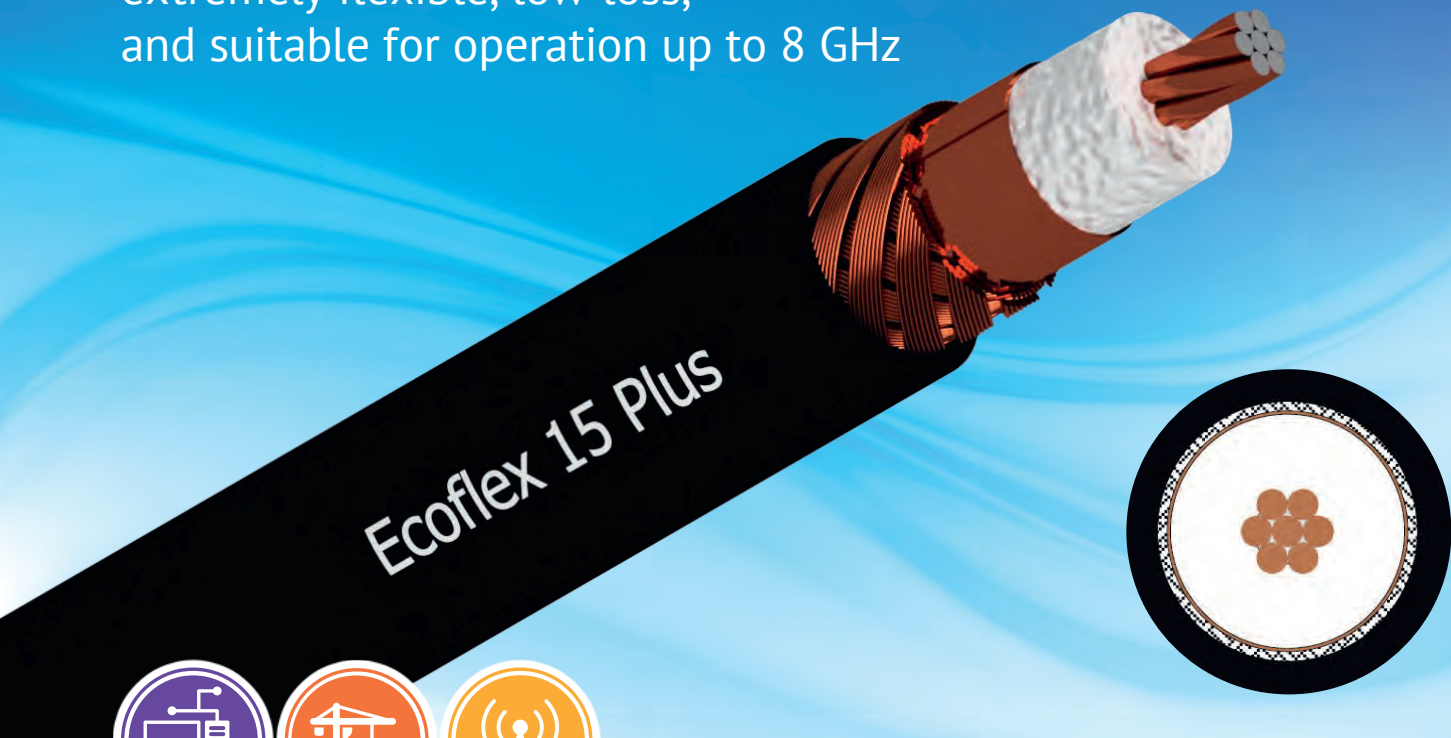
## Typ. Return Loss





# Ecoflex<sup>®</sup> 15 Plus

extremely flexible, low-loss,  
and suitable for operation up to 8 GHz



Ecoflex 15 Plus features remarkable electrical and me

frequency by 2 GHz, excellent installation properties,

Ecoflex 15 Plus is an extremely flexible and very low  
attenuation 50-ohm coaxial cable for use up to 8 GHz.

of over 70 % enable very favorable attenuation values.  
The innovative design of Ecoflex 15 Plus combines the

flexible but lossy standard coaxial cables with stranded

The good flexibility of Ecoflex 15 Plus is ensured by

N, UHF, and 7-16 DIN standards have been developed,  
providing optimal contact and can be easily and quickly

Ecoflex 15 Plus is a modern coaxial cable for many appli  
cations in high-frequency technology: low attenuation,  
long-term stable, flexible, radiation-resistant, and usable

## Key features

Impedance	50 ± 2 Ω
Attenuation at 1 GHz/100 m	9.80 dB
<b>f max</b>	<b>8 GHz</b>
<b>Euroclass according to EN 50575</b>	<b>Eca</b>

## Characteristics

- Jacket material according to DIN EN 50290-2-22 (VDE 0819), compound type TM 52 (HD 624.2)
- 
- RoHS compliant (Directive 2011/65/EC & 2015/863/EU RoHS 3)
- UV-resistant

effectiveness of > 90 dB at 1 GHz. The black PVC outer  
jacket of Ecoflex 15 Plus is UV-stabilized.

## Technical Data

	Hybrid CCA – copper-clad aluminium stranded
	100 %
	75 %
	PVC black, UV-stabilized
Weight	
	-55 to +85 °C transport & fixed installation

## Electrical Data at 20 °C

Capacitance (1 kHz)	
Velocity factor	
Shielding attenuation 1 GHz	≥ 90 dB
	≤ 2.5 Ω/km
	5.0 Ω/km
	≥ 10 GΩ*km
Test Voltage DC (wire/screen)	7 kV
	5 kV

## Ecoflex 15 Plus RG 213/U RG 58/U

Velocity factor	
	10 MHz
	100 MHz
	500 MHz
	1000 MHz
	3000 MHz

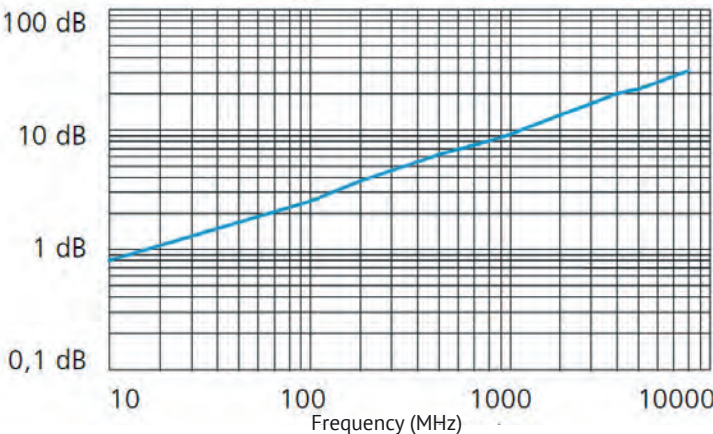
## Typ. Attenuation (dB/100 m at 20 °C)

5 MHz	1000 MHz
10 MHz	1296 MHz
50 MHz	1500 MHz
100 MHz	1800 MHz
144 MHz	2000 MHz
200 MHz	2400 MHz
300 MHz	3000 MHz
432 MHz	4000 MHz
500 MHz	5000 MHz
800 MHz	6000 MHz
	8000 MHz

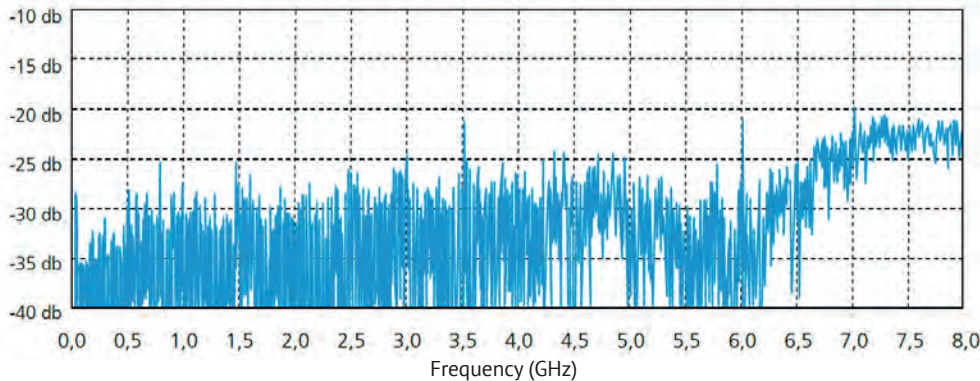
## Max. Power Handling (W at 40 °C)

10 MHz	2400 MHz
100 MHz	3000 MHz
500 MHz	4000 MHz
1000 MHz	5000 MHz
2000 MHz	6000 MHz
	8000 MHz

## Typ. Attenuation (dB/100 m at 20 °C)



## Typ. Return Loss





# Ecoflex® 15 Plus Heatex®

flame-retardant, halogen-free,



Ecoflex 15 Plus Heatex is a halogen-free and flame-retard

facilities, and areas at risk. Ecoflex cables with Heatex jackets are flame-resistant and have low flame propagation. Heatex jackets produce low smoke, ensuring clear escape routes in case of a fire. Being halogen-free, they do not contain reactive elements like fluorine, chlorine, and

that can lead to significant damage. The UV stability of the durable Heatex jacket also allows for unrestricted

Ecoflex 15 Plus Heatex features a 7-strand hybrid inner

properties are significantly better than those of conventional

ensure a high shielding factor of > 90 dB at 1 GHz.

Due to its fire protection class Cca, Ecoflex 15 Plus Heatex is suitable for installation in public buildings. It is certified

to the requirements sets R15 and R16 of the EN 45545-2

## Key features

Impedance	50 ± 2 Ω
Attenuation at 1 GHz/100 m	9.80 dB
f max	8 GHz
Euroclass according to EN 50575	Cca

## Characteristics

- Certified according to EN 45545-2:2013+A1:2015 and EN 45545-2:2020 Requirement Sets R15 + R16 for railway applications
- 
- 
- Vertical flame spread tested according to EN 60332-3-24:2009 (Test method C, cable Ø ≥ 12 mm)
- Halogen-free tested according to DIN EN 50306-1:2003
- Halogen acid gas content tested according to DIN EN 60754-1:2015 (HCl < 0.5 %)
- 
- DIN EN 60754-2:2015 (pH value > 4.3)
- 
- DIN EN 60754-2:2015 (< 10.0 µS/mm)
- 
- EN 60684-2:2011 Sec. 45.2 Procedure A (< 0.1 %)
- Jacket material according to DIN EN 50290-2-27 (HD 624.7)
- RoHS compliant (Directive 2011/65/EC & 2015/863/EU RoHS 3)
- Fire-resistant, low smoke, halogen-free (LSZH)
- UV-resistant

## Technical Data

Hybrid CCA – copper-clad aluminium stranded
100 %
75 %
highly flexible thermoplastic copolymer (FRNC)
Weight
-55 to +85 °C transport & fixed installation

## Electrical Data at 20 °C

Capacitance (1 kHz)	
Velocity factor	
Shielding attenuation 1 GHz	≥ 90 dB
	≤ 2.5 Ω/km
	5.0 Ω/km
	≥ 10 GΩ*km
Test Voltage DC (wire/screen)	7 kV
	5 kV

## Ecoflex 15 Plus Heatex RG 213/U RG 58/U

Velocity factor
10 MHz
100 MHz
500 MHz
1000 MHz
3000 MHz

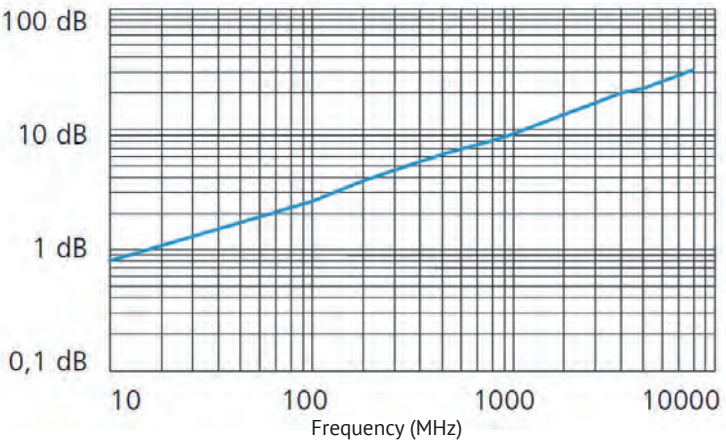
## Typ. Attenuation (dB/100 m at 20 °C)

5 MHz	1000 MHz
10 MHz	1296 MHz
50 MHz	1500 MHz
100 MHz	1800 MHz
144 MHz	2000 MHz
200 MHz	2400 MHz
300 MHz	3000 MHz
432 MHz	4000 MHz
500 MHz	5000 MHz
800 MHz	6000 MHz
	8000 MHz

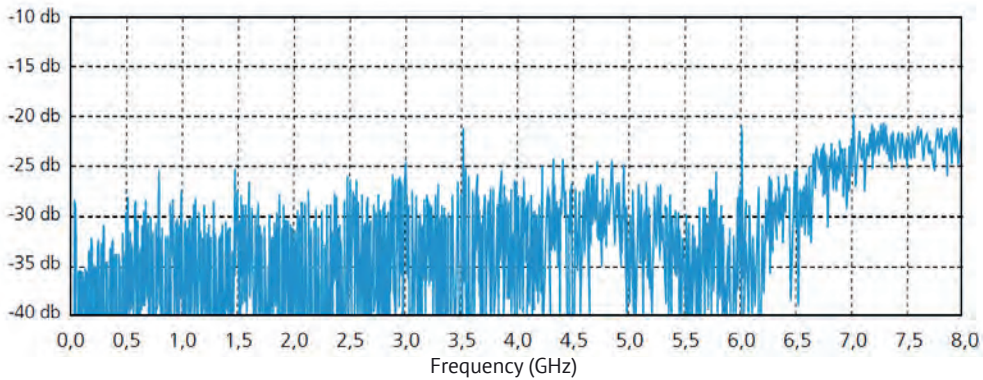
## Max. Power Handling (W at 40 °C)

10 MHz	2400 MHz
100 MHz	3000 MHz
500 MHz	4000 MHz
1000 MHz	5000 MHz
2000 MHz	6000 MHz
	8000 MHz

## Typ. Attenuation (dB/100 m at 20 °C)



## Typ. Return Loss





# SeaTex<sup>®</sup> 5



SeaTex 5 is a low-loss, halogen-free, highly flexible and offshore applications. It holds the worldwide SHF shipbuilding approval (DNV certificate) and is suitable for use in wind turbines. The outer jacket of SeaTex 5 is made of a special thermoplastic copolymer (SHF2), providing the cable with excellent resistance to UV radiation, and weather conditions, ensuring a long service life.

Based on the proven Aircell 5, SeaTex 5 features excellent attenuation values, and its flexibility and small bending radius.

SeaTex 5 combines the advantages of Aircell coaxial cables with the requirements of maritime applications. The product is specified up to 10 GHz and can be used in a wide range of applications.

### Key features

Impedance	50 ± 2 Ω
Attenuation at 1 GHz/100 m	31.09 dB
f max	10 GHz

### Characteristics

- (VDE 0819), Tab. 2/A (HD 624.3)
- Jacket material according to IEC 60092-360 (IEC 60092-359) SHF2
- Wall thickness of the cable jacket according to IEC 60092-376
- 
- 
- 
- RoHS compliant (Directive 2011/65/EC & 2015/863/EU RoHS 3)
- Fire-resistant, low smoke, halogen-free (LSZH)
- 
- 
- UV-resistant
- 
- DNV certificate no. TAE00001JX



### Technical Data

Impedance	50 Ω
Attenuation at 1 GHz/100 m	31.09 dB
Weight	100 %
Weight	70 %
Weight	special thermoplastic copolymer (SHF2) black
Weight	-55 to +85 °C transport & fixed installation

### Electrical Data at 20 °C

Capacitance (1 kHz)	≤ 20.5 pF/km
Velocity factor	≥ 90 %
Shielding attenuation 1 GHz	≥ 90 dB
Shielding attenuation 1 GHz	≤ 20.5 Ω/km
Shielding attenuation 1 GHz	17 Ω/km
Shielding attenuation 1 GHz	≥ 10 GΩ*km
Test Voltage DC (wire/screen)	4 kV
Test Voltage DC (wire/screen)	2.5 kV

### SeaTex 5 RG 58/U RG 213/U

Velocity factor	100 %
Velocity factor	100 MHz
Velocity factor	500 MHz
Velocity factor	1000 MHz
Velocity factor	3000 MHz

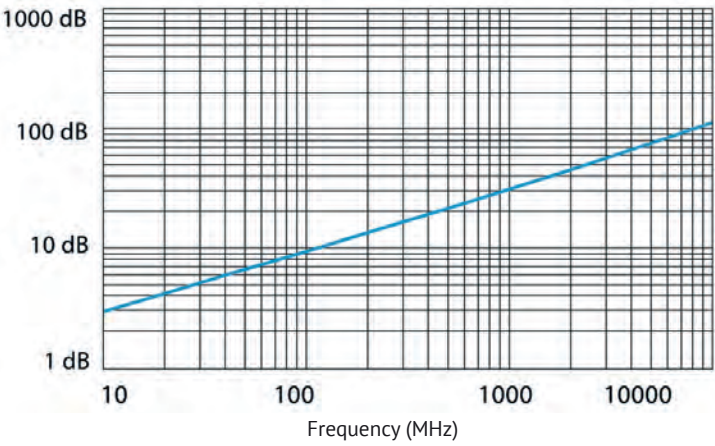
### Typ. Attenuation (dB/100 m at 20 °C)

5 MHz	1000 MHz
10 MHz	1296 MHz
50 MHz	1500 MHz
100 MHz	1800 MHz
144 MHz	2000 MHz
200 MHz	2400 MHz
300 MHz	3000 MHz
432 MHz	4000 MHz
500 MHz	5000 MHz
800 MHz	6000 MHz
	10000 MHz

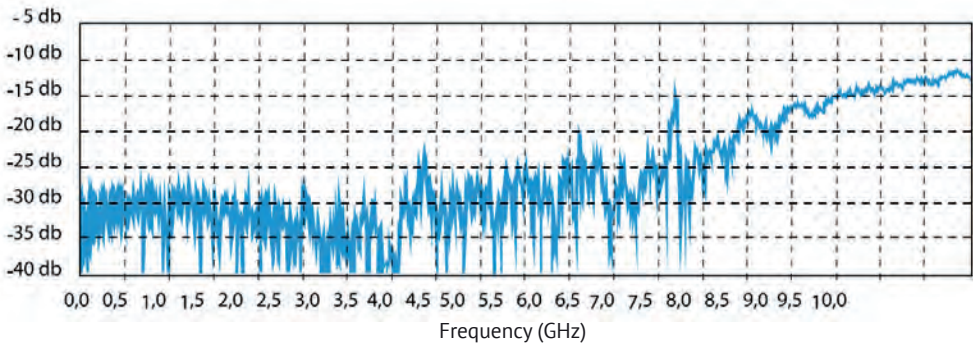
### Max. Power Handling (W at 40 °C)

10 MHz	3000 MHz
100 MHz	4000 MHz
500 MHz	5000 MHz
1000 MHz	6000 MHz
2000 MHz	10000 MHz

### Typ. Attenuation (dB/100 m at 20 °C)



### Typ. Return Loss





# SeaTex<sup>®</sup> 7

ultra-flexible, low-loss, stray radiation-resistant,



SeaTex 7 is a low-loss, halogen-free, highly flexible com

and offshore applications. It holds the worldwide SHF shipbuilding approval (DNV certificate) and is suitable for

turbines. The outer jacket of SeaTex 7 is made of a special thermoplastic copolymer (SHF2), providing the cable with high resistance to heat, cold, oils, saltwater, UV radiation,

Based on the proven Aircell 7, SeaTex 7 features excellent attenuation values, and its flexibility and small bending

SeaTex 7 combines the advantages of Aircell coaxial cables with the requirements of maritime applications. The product is specified up to 6 GHz and can be used in a

### Key features

Impedance	50 ± 2 Ω
Attenuation at 1 GHz/100 m	21.52 dB
f max	6 GHz

### Characteristics

- 
- 
- 
- Jacket material according to IEC 60092-360 (IEC 60092-359) SHF2
- Wall thickness of the cable jacket according to IEC 60092-376
- 
- 
- 
- RoHS compliant (Directive 2011/65/EC & 2015/863/EU RoHS 3)
- Fire-resistant, low smoke, halogen-free (LSZH)
- 
- 
- UV-resistant
- 
- DNV certificate no. TAE00001JX



### Technical Data

1.9 mm (19 × 0.38 mm, 14 AWG)
100 %
85 %
special thermoplastic copolymer (SHF2) black
Weight
-55 to +85 °C transport & fixed installation

### Electrical Data at 20 °C

Capacitance (1 kHz)	
Velocity factor	
Shielding attenuation 1 GHz	≥ 90 dB
	≤ 9 Ω/km
	8.7 Ω/km
	≥ 10 GΩ*km
Test Voltage DC (wire/screen)	10 kV
	8 kV

### SeaTex 7 RG 58/U RG 213/U

Velocity factor
10 MHz
100 MHz
500 MHz
1000 MHz
3000 MHz

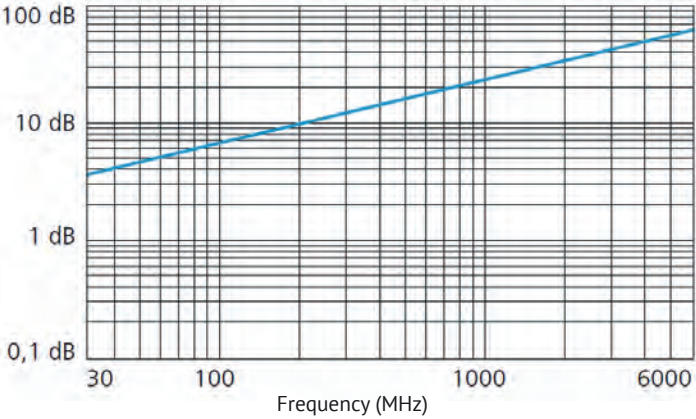
### Typ. Attenuation (dB/100 m at 20 °C)

5 MHz	1000 MHz
10 MHz	1296 MHz
50 MHz	1500 MHz
100 MHz	1800 MHz
144 MHz	2000 MHz
200 MHz	2400 MHz
300 MHz	3000 MHz
432 MHz	4000 MHz
500 MHz	5000 MHz
800 MHz	6000 MHz

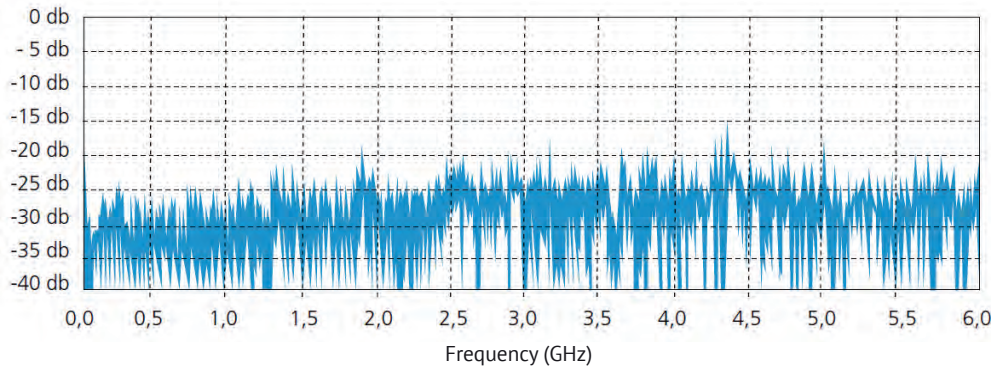
### Max. Power Handling (W at 40 °C)

10 MHz	2400 MHz
100 MHz	3000 MHz
500 MHz	4000 MHz
1000 MHz	5000 MHz
2000 MHz	6000 MHz

### Typ. Attenuation (dB/100 m at 20 °C)



### Typ. Return Loss





# SeaTex<sup>®</sup> 10

ultra-flexible, low-loss,



SeaTex 10 is a low-loss, halogen-free, highly flexible and offshore applications. It holds the worldwide SHF shipbuilding approval (DNV certificate) and is suitable for turbines. The outer jacket of SeaTex 10 is made of a special thermoplastic copolymer (SHF2), providing the cable with high resistance to heat, cold, oils, saltwater, UV radiation,

Based on the proven Ecoflex 10, SeaTex 10 features excellent attenuation values, and its flexibility and small bending

SeaTex 10 combines the advantages of Ecoflex coaxial cables with the requirements of maritime applications. The product is specified up to 6 GHz and can be used in a

### Key features

Impedance	50 ± 2 Ω
Attenuation at 1 GHz/100 m	14.20 dB
f max	6 GHz

### Characteristics

- 
- 
- 
- Jacket material according to IEC 60092-360 (IEC 60092-359) SHF2
- Wall thickness of the cable jacket according to IEC 60092-376
- 
- 
- 
- RoHS compliant (Directive 2011/65/EC & 2015/863/EU RoHS 3)
- Fire-resistant, low smoke, halogen-free (LSZH)
- 
- 
- UV-resistant
- 
- DNV certificate no. TAE00001JX



### Technical Data

	2.85 mm (7 × 1.0 mm, 10 AWG)
	100 %
	75 %
	special thermoplastic copolymer (SHF2) black
Weight	
	-55 to +85 °C transport & fixed installation

### Electrical Data at 20 °C

Capacitance (1 kHz)	
Velocity factor	
Shielding attenuation 1 GHz	≥ 90 dB
	≤ 3.5 Ω/km
	6.6 Ω/km
	≥ 10 GΩ*km
Test Voltage DC (wire/screen)	7 kV
	5 kV

### SeaTex 10 RG 213/U RG 58/U

Velocity factor	
	10 MHz
	100 MHz
	500 MHz
	1000 MHz
	3000 MHz

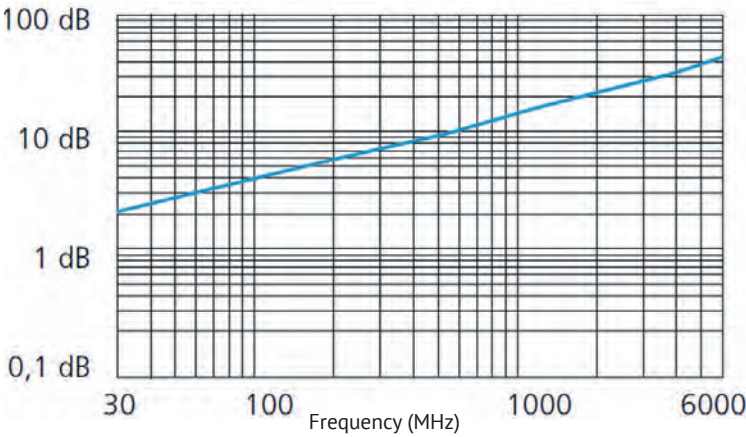
### Typ. Attenuation (dB/100 m at 20 °C)

5 MHz	1000 MHz
10 MHz	1296 MHz
50 MHz	1500 MHz
100 MHz	1800 MHz
144 MHz	2000 MHz
200 MHz	2400 MHz
300 MHz	3000 MHz
432 MHz	4000 MHz
500 MHz	5000 MHz
800 MHz	6000 MHz

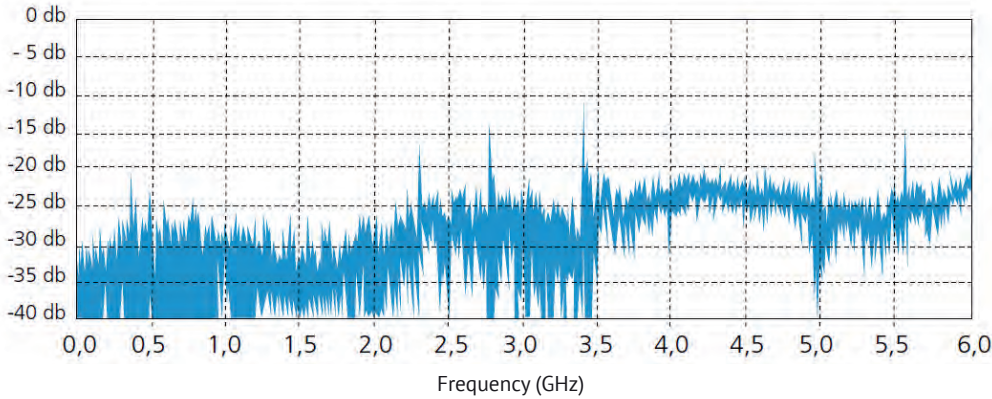
### Max. Power Handling (W at 40 °C)

10 MHz	2400 MHz
100 MHz	3000 MHz
500 MHz	4000 MHz
1000 MHz	5000 MHz
2000 MHz	6000 MHz

### Typ. Attenuation (dB/100 m at 20 °C)



### Typ. Return Loss





# SeaTex<sup>®</sup> 15

flexible, low-loss, stray radiation resistant



SeaTex 15 is a low-loss, halogen-free, highly flexible and offshore applications. It holds the worldwide SHF shipbuilding approval (DNV certificate) and is suitable for turbines. The outer jacket of SeaTex 15 is made of a special thermoplastic copolymer (SHF2), providing the cable with high resistance to heat, cold, oils, saltwater, UV radiation,

Based on the proven Ecoflex 15, SeaTex 15 features excellent attenuation values, and its flexibility and small bending

SeaTex 15 combines the advantages of Ecoflex coaxial cables with the requirements of maritime applications. The product is specified up to 6 GHz and can be used in a

## Key features

Impedance	50 ± 2 Ω
Attenuation at 1 GHz/100 m	9.80 dB
f max	6 GHz

## Characteristics

- Jacket material according to IEC 60092-360 (IEC 60092-359) SHF2
- Wall thickness of the cable jacket according to IEC 60092-376
- RoHS compliant (Directive 2011/65/EC & 2015/863/EU RoHS 3)
- Fire-resistant, low smoke, halogen-free (LSZH)
- UV-resistant
- DNV certificate no. TAE00001JX



## Technical Data

100 %
75 %
special thermoplastic copolymer (SHF2) black
Weight
-55 to +85 °C transport & fixed installation

## Electrical Data at 20 °C

Capacitance (1 kHz)	
Velocity factor	
Shielding attenuation 1 GHz	≥ 90 dB
	≤ 1.5 Ω/km
	5.0 Ω/km
	≥ 10 GΩ*km
Test Voltage DC (wire/screen)	7 kV
	5 kV

## SeaTex 15 RG 213/U RG 58/U

Velocity factor
10 MHz
100 MHz
500 MHz
1000 MHz
3000 MHz

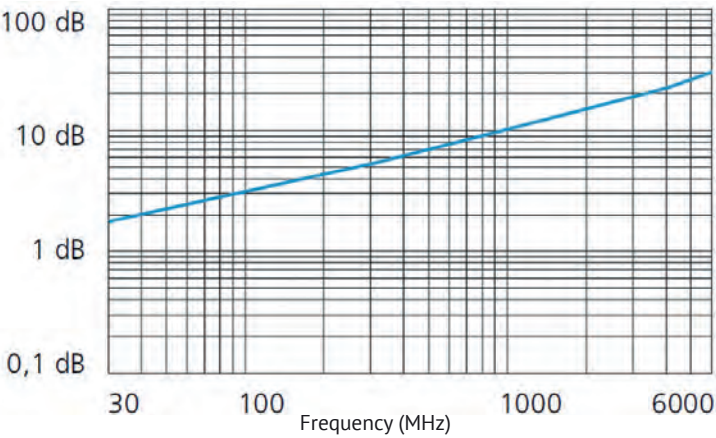
## Typ. Attenuation (dB/100 m at 20 °C)

5 MHz	1000 MHz
10 MHz	1296 MHz
50 MHz	1500 MHz
100 MHz	1800 MHz
144 MHz	2000 MHz
200 MHz	2400 MHz
300 MHz	3000 MHz
432 MHz	4000 MHz
500 MHz	5000 MHz
800 MHz	6000 MHz

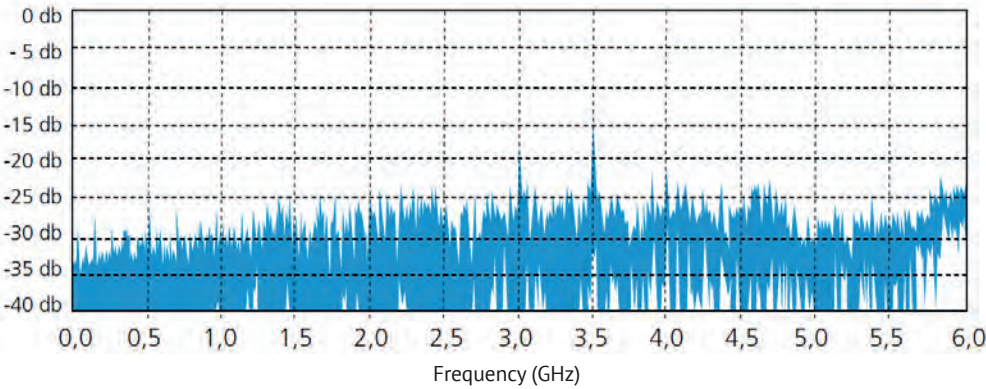
## Max. Power Handling (W at 40 °C)

10 MHz	2400 MHz
100 MHz	3000 MHz
500 MHz	4000 MHz
1000 MHz	5000 MHz
2000 MHz	6000 MHz

## Typ. Attenuation (dB/100 m at 20 °C)



## Typ. Return Loss





# H155 SSB

low-loss and ultra-flexible



H155 by SSB-Electronic is a thin and extremely flexible coaxial cable for the frequency range up to 6 GHz. Due to the low attenuation and the great flexibility, this cable

flexibility of the cable. The extremely low attenuation of H155 is achieved through a low-loss PE dielectric. In

conductor of the cable has two layers. At first, the alumin

a coverage of 75% is applied to this foil. The cable has a UV-resistant PVC outer jacket.

H155 by SSB-Electronic is suitable for numerous applications in WLAN, GPS, CB and mobile communications, short antenna feed lines, and many other high-frequency

### Key features

Impedance	50 ± 4 Ω
Attenuation at 1 GHz/100 m	29.60 dB
f max	6 GHz
Euroclass according to EN 50575	Fca

### Characteristics

- UV-resistant according to IEC 61196-1-212
- RoHS compliant (Directive 2011/65/EC & 2015/863/EU RoHS 3)
- REACH compliant

### Technical Data

	100 %
	75 %
	PVC black, UV-resistant
Weight	

### Electrical Data at 20 °C

Screening attenuation 30 – 3000 MHz	≥ 85 dB
Capacitance (1 kHz)	
Velocity factor	
	15.4 Ω/km
	17.0 Ω/km
	≥ 5 GΩ*km
Test Voltage DC (wire/screen)	AC 1.0 kV
	2.5 kV

### H155 SSB    RG 58/U    RG 213/U

Velocity factor	
	10 MHz
	100 MHz
	500 MHz
	1000 MHz
	3000 MHz

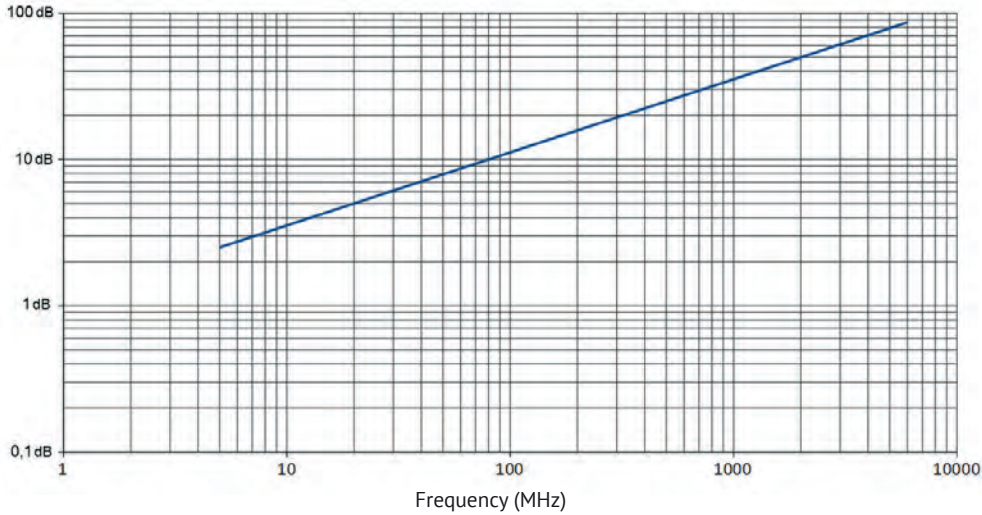
### Typ. Attenuation (dB/100 m at 20 °C)

10 MHz	1296 MHz
20 MHz	1500 MHz
50 MHz	1750 MHz
100 MHz	1800 MHz
144 MHz	2000 MHz
200 MHz	2400 MHz
230 MHz	3000 MHz
300 MHz	3600 MHz
400 MHz	4000 MHz
432 MHz	4800 MHz
500 MHz	5000 MHz
800 MHz	5400 MHz
1000 MHz	6000 MHz

### Max. Power Handling (kW at 20 °C)

50 MHz	2400 MHz
230 MHz	3000 MHz
400 MHz	3600 MHz
800 MHz	4800 MHz
1000 MHz	5400 MHz
1750 MHz	6000 MHz

### Typ. Attenuation (dB/100 m at 20 °C)





# H155 PE SSB

low-loss and ultra-flexible



H155 PE by SSB-Electronic is a thin and extremely flexible coaxial cable for the frequency range up to 6 GHz. Due to the low attenuation and the great flexibility, this cable

flexibility of the cable. The extremely low attenuation of H155 is achieved through a low-loss PE dielectric. In

conductor of the cable has two layers. At first, the alumin

a coverage of 75% is applied to this foil. The cable has

H155 PE by SSB-Electronic is suitable for numerous applications in WLAN, GPS, CB, and mobile communications, short antenna feed lines, and many other high-frequency

## Key features

Impedance	50 ± 4 Ω
Attenuation at 1 GHz/100 m	29.60 dB
f max	6 GHz
Euroclass according to EN 50575	Fca

## Characteristics

- UV-resistant according to IEC 61196-1-212
- RoHS compliant (Directive 2011/65/EC & 2015/863/EU RoHS 3)
- REACH compliant

## Technical Data

	100 %
	75 %
Weight	

## Electrical Data at 20 °C

Screening attenuation 30 – 3000 MHz	≥ 85 dB
Capacitance (1 kHz)	
Velocity factor	
	15.4 Ω/km
	17.0 Ω/km
	≥ 5 GΩ*km
Test Voltage DC (wire/screen)	AC 1.0 kV
	2.5 kV

## H155 PE SSB    RG 58/U    RG 213/U

Velocity factor	
	10 MHz
	100 MHz
	500 MHz
	1000 MHz
	3000 MHz

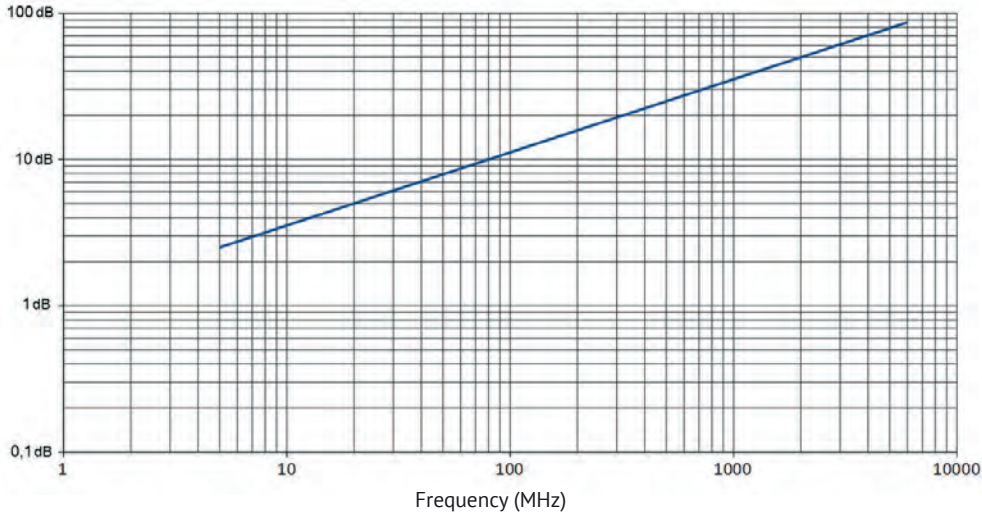
## Typ. Attenuation (dB/100 m at 20 °C)

10 MHz	1296 MHz
20 MHz	1500 MHz
50 MHz	1750 MHz
100 MHz	1800 MHz
144 MHz	2000 MHz
200 MHz	2400 MHz
230 MHz	3000 MHz
300 MHz	3600 MHz
400 MHz	4000 MHz
432 MHz	4800 MHz
500 MHz	5000 MHz
800 MHz	5400 MHz
1000 MHz	6000 MHz

## Max. Power Handling (kW at 20 °C)

50 MHz	2400 MHz
230 MHz	3000 MHz
400 MHz	3600 MHz
800 MHz	4800 MHz
1000 MHz	5400 MHz
1750 MHz	6000 MHz

## Typ. Attenuation (dB/100 m at 20 °C)



# Coaxial Connectors N

Connector	Item No.	Suitable for	Inner conductor	Outer conductor	Material Isolator	Material gasket in mating face	Surface of Body & Other Metal Parts, Except Pin	Pin Surface	Weight	SWR @ 3 GHz	Impedance	Frequency up to	Return Loss	Insertion Loss
N male										<1.1	50 Ω	6 GHz	≤ -32.9dB @ 1GHz; ≤ -26.5dB @ 3GHz; ≤ -21.4dB @ 11GHz	≤ 0.01 dB
N male (crimp)										<1.1	50 Ω	6 GHz	≤ -33.8dB @ 1GHz; ≤ -28.7dB @ 3GHz; ≤ -22.0dB @ 11GHz	≤ 0.05 dB
N female (crimp)										<1.1	50 Ω	6 GHz	≤ -33.8dB @ 1GHz; ≤ -28.7dB @ 3GHz; ≤ -22.0dB @ 11GHz	≤ 0.05 dB
N male right-angle										<1.1	50 Ω	6 GHz	≤ -33.8dB @ 1GHz; ≤ -28.7dB @ 3GHz; ≤ -22.0dB @ 11GHz	≤ 0.05 dB
N male right-angle (crimp)										<1.1	50 Ω	6 GHz	≤ -44.0dB @ 1GHz; ≤ -29.5dB @ 3GHz; ≤ -28.0dB @ 11GHz	≤ 0.05 dB
N flange female										<1.1	50 Ω	6 GHz	≤ -37.7dB @ 1GHz; ≤ -30.0dB @ 3GHz; ≤ -29.9dB @ 11GHz	≤ 0.05 dB
N female										<1.1	50 Ω	6 GHz	≤ -20dB @ 10GHz	≤ 0.05 dB
N male										<1.05	50 Ω	10 GHz	≤ -27.5dB @ 11GHz; ≤ -36.1dB @ 3GHz; ≤ -39.6dB @ 1GHz	≤ 0.05 dB
N male (crimp)										<1.05	50 Ω	4 GHz	≤ -27.5dB @ 11GHz; ≤ -36.1dB @ 3GHz; ≤ -39.6dB @ 1GHz	≤ 0.05 dB
N male right-angle										<1.05	50 Ω	4 GHz	≤ -20dB @ 10GHz	≤ 0.05 dB
N female		Ecoflex 10								<1.05	50 Ω	3.5 GHz	≤ -33.2dB @ 11GHz; ≤ -36.4dB @ 3GHz; ≤ -47.5dB @ 1GHz	≤ 0.05 dB
N male		Ecoflex 10								<1.06	50 Ω	10 GHz	≤ -30.0dB @ 11GHz; ≤ -31.6dB @ 3GHz; ≤ -39.9dB @ 1GHz	≤ 0.05 dB
N female (crimp)		Ecoflex 10								<1.05	50 Ω	4 GHz	≤ -51.4dB @ 1GHz; ≤ -37.2dB @ 4GHz; ≤ -30.9dB @ 11GHz	≤ 0.05 dB
N male (crimp)		Ecoflex 10								<1.05	50 Ω	4 GHz	≤ -32.4dB @ 11GHz; ≤ -35.6dB @ 3GHz; ≤ -42.5dB @ 1GHz	≤ 0.05 dB
N female (solderless)		Ecoflex 10								<1.05	50 Ω	1 GHz	≤ -33.2dB @ 11GHz; ≤ -36.4dB @ 3GHz; ≤ -47.5dB @ 1GHz	≤ 0.05 dB
N male (solderless)		Ecoflex 10								<1.05	50 Ω	10 GHz	≤ -32.4dB @ 11GHz; ≤ -35.6dB @ 3GHz; ≤ -42.5dB @ 1GHz	≤ 0.05 dB
N male Slotted		Ecoflex 10								<1.05	50 Ω	10 GHz	≤ -30.0dB @ 11GHz; ≤ -31.6dB @ 3GHz; ≤ -39.9dB @ 1GHz	≤ 0.05 dB
N male right-angle		Ecoflex 10								<1.06	50 Ω	4 GHz	≤ -29.1dB @ 11GHz; ≤ -31.5dB @ 3GHz; ≤ -35.4dB @ 1GHz	≤ 0.05 dB
N male right-angle	HTX	Aircom / Ecoflex 10								<1.06	50 Ω	4 GHz	≤ -29.1dB @ 11GHz; ≤ -31.5dB @ 3GHz; ≤ -35.4dB @ 1GHz	≤ 0.05 dB
N female		Ecoflex 10 FRNC /								<1.05	50 Ω	3 GHz	≤ -38.6dB @ 1GHz; ≤ -33.7dB @ 3GHz; ≤ -38.7dB @ 11GHz	≤ 0.05 dB
N male		Ecoflex 10 FRNC/								<1.06	50 Ω	10 GHz	≤ -41.2dB @ 1GHz; ≤ -32.0dB @ 3GHz; ≤ -31.2dB @ 11GHz	≤ 0.05 dB
N male (solderless)		Ecoflex 10 Plus Hea								<1.06	50 Ω	10 GHz	≤ -41.2dB @ 1GHz; ≤ -32.0dB @ 3GHz; ≤ -31.2dB @ 11GHz	≤ 0.05 dB
N male (solderless)		Ecoflex 15 FRNC/								<1.06	50 Ω	11 GHz	≤ -29.1dB @ 11GHz; ≤ -31.5dB @ 3GHz; ≤ -35.4dB @ 1GHz	≤ 0.05 dB
N female (solderless)		Ecoflex 15 FRNC/								<1.06	50 Ω	11 GHz	≤ -33.6dB @ 1GHz; ≤ -32.5dB @ 4GHz; ≤ -29.3dB @ 11GHz	≤ 0.05 dB
N male (solderless)		Ecoflex 15 / Plus								<1.06	50 Ω	11 GHz	≤ -29.1dB @ 11GHz; ≤ -31.5dB @ 3GHz; ≤ -35.4dB @ 1GHz	≤ 0.05 dB



# Coaxial Connectors BNC

Connector	Item No.	Suitable for	Inner conductor	Outer conductor	Material Isolator	Material gasket in mating face	Surface of Body & Other Metal Parts, Except Pin	Pin Surface	Weight	SWR @ 3 GHz	Impedance	Frequency up to	Return Loss	Insertion Loss
BNC female										<1.1	50 Ω	3 GHz	≤ -46.4dB @ 0.5GHz; ≤ -42.9dB @ 1GHz; ≤ -26.5dB @ 3GHz	≤ 0.05 dB
BNC male										<1.21	50 Ω	4 GHz	≤ -45.1dB @ 0.5GHz; ≤ -32.3dB @ 1GHz; ≤ -20.8dB @ 3GHz	≤ 0.05 dB
BNC female (crimp)										<1.09	50 Ω	4 GHz	≤ -35.9dB @ 0.5GHz; ≤ -35.2dB @ 1GHz; ≤ -27.8dB @ 3GHz	≤ 0.05 dB
BNC male (crimp)										<1.21	50 Ω	4 GHz	≤ -45.1dB @ 0.5GHz; ≤ -32.3dB @ 1GHz; ≤ -20.8dB @ 3GHz	≤ 0.05 dB
BNC mounting female (crimp)										<1.1	50 Ω	4 GHz	≤ -35.8dB @ 0.5GHz; ≤ -31.0dB @ 1GHz; ≤ -27.3dB @ 3GHz	≤ 0.05 dB
BNC female										<1.04	50 Ω	3 GHz	≤ -35.8dB @ 11GHz; ≤ -36.2dB @ 3GHz; ≤ -38.9dB @ 1GHz	≤ 0.05 dB
BNC male										<1.04	50 Ω	3 GHz	≤ -35.8dB @ 11GHz; ≤ -36.2dB @ 3GHz; ≤ -38.9dB @ 1GHz	≤ 0.05 dB
BNC male (crimp)										<1.23	50 Ω	4 GHz	≤ -20dB @ 3GHz	≤ 0.05 dB
BNC female		Aircom / Ecoflex 10								<1.23	50 Ω	3 GHz	≤ -20dB @ 3GHz	≤ 0.05 dB
BNC male		Aircom / Ecoflex 10								<1.02	50 Ω	2.5 GHz	≤ -39.3dB @ 11GHz; ≤ -43.6dB @ 3GHz; ≤ -49.0dB @ 1GHz	≤ 0.05 dB

# Coaxial Connectors TNC

Connector	Item No.	Suitable for	Inner conductor	Outer conductor	Material Isolator	Material gasket in mating face	Surface of Body & Other Metal Parts, Except Pin	Pin Surface	Weight	SWR @ 3 GHz	Impedance	Frequency up to	Return Loss	Insertion Loss
TNC female										<1.06	50 Ω	6 GHz	≤ -35.8dB @ 1GHz; ≤ -31.6dB @ 3GHz; ≤ -31.7dB @ 11GHz	≤ 0.05 dB
TNC male										<1.15	50 Ω	6 GHz	≤ -27.6dB @ 1GHz; ≤ -23.2dB @ 3GHz; ≤ -27.4dB @ 11GHz	≤ 0.05 dB
TNC female (crimp)										<1.12	50 Ω	6 GHz	≤ -30.1dB @ 1GHz; ≤ -25.4dB @ 3GHz; ≤ -29.4dB @ 11GHz	≤ 0.05 dB
TNC male (crimp)										<1.1	50 Ω	6 GHz	≤ -31.4dB @ 1GHz; ≤ -27.3dB @ 3GHz; ≤ -29.9dB @ 11GHz	≤ 0.05 dB
TNC male right-angle (crimp)										<1.09	50 Ω	4 GHz	≤ -32.4dB @ 1GHz; ≤ -28.1dB @ 3GHz; ≤ -23.0dB @ 11GHz	≤ 0.05 dB
TNC-RP male (crimp)										<1.04	50 Ω	6 GHz	≤ -23.5dB @ 1GHz; ≤ -36.6dB @ 3GHz; ≤ -29.4dB @ 11GHz	≤ 0.05 dB
TNC male										<1.12	50 Ω	3 GHz	≤ -25dB @ 3GHz	≤ 0.05 dB
TNC male (crimp)										<1.12	50 Ω	4 GHz	≤ -25dB @ 3GHz	≤ 0.05 dB
TNC male		Aircom / Ecoflex 10								<1.05	50 Ω	3 GHz	≤ -29.4dB @ 11GHz; ≤ -33.3dB @ 3GHz; ≤ -40.5dB @ 1GHz	≤ 0.05 dB
TNC-RP male		Aircom / Ecoflex 10								<1.12	50 Ω	3 GHz	≤ -25dB @ 3GHz	≤ 0.05 dB

# Coaxial Connectors SMA

Connector	Item No.	Suitable for	Inner conductor	Outer conductor	Material Isolator	Material gasket in mating face	Surface of Body & Other Metal Parts, Except Pin	Pin Surface	Weight	SWR @ 3 GHz	Impedance	Frequency up to	Return Loss	Insertion Loss
SMA female (crimp)										<1.1	50 Ω	8 GHz	≤ -32.6dB @ 1GHz; ≤ -25.4dB @ 4GHz; ≤ -23.9dB @ 12.4GHz	≤ 0.05 dB
SMA male (crimp)										<1.1	50 Ω	8 GHz	≤ -32.6dB @ 1GHz; ≤ -25.4dB @ 4GHz; ≤ -23.9dB @ 12.4GHz	≤ 0.05 dB
SMA-RP female (crimp)										<1.05	50 Ω	8 GHz	≤ -40.7dB @ 1GHz; ≤ -33.7dB @ 4GHz; ≤ -29.1dB @ 12.4GHz	≤ 0.05 dB
SMA-RP male (crimp)										<1.05	50 Ω	8 GHz	≤ -44.8dB @ 1GHz; ≤ -30.0dB @ 4GHz; ≤ -30.7dB @ 12.4GHz	≤ 0.05 dB
SMA male right-angle (crimp)										<1.12	50 Ω	8 GHz	≤ -32.6dB @ 1GHz; ≤ -25.4dB @ 4GHz; ≤ -23.9dB @ 12.4GHz	≤ 0.05 dB
SMA male										<1.12	50 Ω	6 GHz	≤ -25dB @ 4GHz	≤ 0.05 dB
SMA male (crimp)										<1.12	50 Ω	6 GHz	≤ -25dB @ 4GHz	≤ 0.05 dB
SMA male		Aircom / Ecoflex 10								<1.12	50 Ω	11 GHz	≤ -25dB @ 4GHz	≤ 0.05 dB
SMA male RP		Aircom / Ecoflex 10								<1.03	50 Ω	11 GHz	≤ -43.4dB @ 1GHz; ≤ -38.2dB @ 4GHz; ≤ -26.5dB @ 12.4GHz	≤ 0.05 dB
SMA male RP										<1.03	50 Ω	6 GHz	≤ -43.4dB @ 1GHz; ≤ -38.2dB @ 4GHz; ≤ -26.5dB @ 12.4GHz	≤ 0.05 dB

# Coaxial Connectors UHF

Connector	Item No.	Suitable for	Inner conductor	Outer conductor	Material Isolator	Material gasket in mating face	Surface of Body & Other Metal Parts, Except Pin	Pin Surface	Weight	SWR @ 3 GHz	Impedance	Frequency up to	Return Loss	Insertion Loss
UHF male										<1.04	50 Ω	1 GHz	≤ -36.4dB @ 0.2GHz	≤ 0.05 dB
UHF male (crimp)										<1.06	50 Ω	1 GHz	≤ -31.5dB @ 0.2GHz	≤ 0.05 dB
UHF male (standard)										<1.07	50 Ω	1 GHz	≤ -30.9dB @ 200MHz	≤ 0.05 dB
UHF male PRO										<1.07	50 Ω	1 GHz	≤ -30.9dB @ 200MHz	≤ 0.05 dB
UHF male		Ecoflex 10 / / Aircom								<1.12	50 Ω	200 MHz	≤ -25dB @ 200MHz	≤ 0.05 dB
UHF male PRO		Aircom / Ecoflex 10								<1.06	50 Ω	200 MHz	≤ -23.6dB @ 1GHz; ≤ -30.4dB @ 500MHz; ≤ -32.4dB @ 200MHz	≤ 0.05 dB
UHF male (solderless)		Ecoflex 15 / Plus								<1.12	50 Ω	200 MHz	≤ -25dB @ 1GHz	≤ 0.05 dB
UHF Flange female										<1.12	50 Ω	200 MHz	≤ -25dB @ 1GHz	≤ 0.05 dB

# Coaxial Connectors 7-16 DIN

Connector	Item No.	Suitable for	Inner conductor	Outer conductor	Material Isolator	Material gasket in mating face	Surface of Body & Other Metal Parts, Except Pin	Pin Surface	Weight	SWR @ 3 GHz	Impedance	Frequency up to	Return Loss	Insertion Loss
7-16 DIN male		Aircom / Ecoflex 10								<1.06	50 Ω	6 GHz	≤ -40.7dB @ 1GHz; ≤ -30.7dB @ 3GHz; ≤ -32.8dB @ 7.5GHz	≤ 0.05 dB
7-16 DIN female		Aircom / Ecoflex 10								<1.04	50 Ω	6 GHz	≤ -45.9dB @ 1GHz; ≤ -36.3dB @ 3GHz; ≤ -28.3dB @ 7.5GHz	≤ 0.05 dB
7-16 DIN female (solderless)		Ecoflex 15 / Plus								<1.04	50 Ω	6 GHz	≤ -45.8dB @ 1GHz; ≤ -36.2dB @ 3GHz; ≤ -28.1dB @ 7.5GHz	≤ 0.05 dB
7-16 DIN male (solderless)		Ecoflex 15 / Plus								<1.04	50 Ω	6 GHz	≤ -45.9dB @ 1GHz; ≤ -36.3dB @ 3GHz; ≤ -28.3dB @ 7.5GHz	≤ 0.05 dB



# Coaxial Connectors FME

Connector	Item No.	Suitable for	Inner conductor	Outer conductor	Material Isolator	Material gasket in mating face	Surface of Body & Other Metal Parts, Except Pin	Pin Surface	Weight	SWR @ 3 GHz	Impedance	Frequency up to	Return Loss	Insertion Loss
FME female (crimp)										<1.12	50 Ω	4 GHz	≤ -25dB @ 2GHz	≤ 0.05 dB
FME male (crimp)										<1.1	50 Ω	4 GHz	≤ -32.9dB @ 1GHz; ≤ -26.5dB @ 3GHz; ≤ -21.4dB @ 11GHz	≤ 0.01 dB
FME female (crimp)										<1.12	50 Ω	2 GHz	≤ -33.9dB @ 0.5GHz; ≤ -29.8dB @ 1GHz; ≤ -25.1dB @ 2GHz	≤ 0.05 dB
FME male (crimp)										<1.04	50 Ω	2 GHz	≤ -32.9dB @ 0.5GHz; ≤ -30.7dB @ 1GHz; ≤ -36.1dB @ 2GHz	≤ 0.05 dB

# Coaxial Connectors 4.3-10

Connector	Item No.	Suitable for	Inner conductor	Outer conductor	Material Isolator	Material gasket in mating face	Surface of Body & Other Metal Parts, Except Pin	Pin Surface	Weight	SWR @ 3 GHz	Impedance	Frequency up to	Return Loss	Insertion Loss
SSB Snap-In 4.3-10 Straight Crimp										<1.04	50 Ω	6 GHz	1GHz - 40dB; 2.5GHz - 35dB	≤ 0.05 dB
SSB Snap-In 4.3-10 Straight Clamp										<1.07	50 Ω	6 GHz	1GHz - 35dB; 2GHz - 32dB; 6GHz - 28dB	≤ 0.05 dB
SSB Snap-In 4.3-10 Angle Crimp										<1.07	50 Ω	6 GHz	1GHz - 34dB; 2GHz - 28dB; 6GHz - 17dB	≤ 0.05 dB
SSB Snap-In 4.3-10 Flange Cassis female										<1.07	50 Ω	6 GHz	1 GHz - 38 dB 2.5 GHz - 32 dB	≤ 0.05 dB

# Coaxial Connectors NEX 10

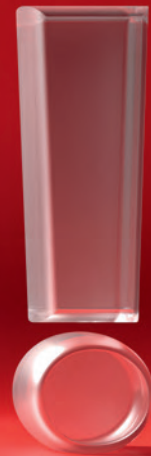
Connector	Item No.	Suitable for	Inner conductor	Outer conductor	Material Isolator	Material gasket in mating face	Surface of Body & Other Metal Parts, Except Pin	Pin Surface	Weight	VSWR	Impedance	Frequency up to	Return Loss	Insertion Loss
Nex10 male – Ecoflex 10 / Aircom Premium		Ecoflex 10					HEP2R surface			≤ 1.15 @ DC-6 GHz; ≤ 1.35 @ 6-12 GHz	50 Ω	12 GHz	< -36 dB @ DC-4 GHz; < -34 dB @ 4-6 GHz; < -30 dB @ 6-12 GHz	≤ 0.05 dB
Nex10 female – Ecoflex 10 / Aircom Premium							HEP2R surface			≤ 1.15 @ DC-6 GHz; ≤ 1.35 @ 6-12 GHz	50 Ω	12 GHz	< -36 dB @ DC-4 GHz; < -34 dB @ 4-6 GHz; < -30 dB @ 6-12 GHz	≤ 0.05 dB

# Coaxial Adapters

Adapter	SMA male	SMA female	SMA RP male	UHF female	UHF male	BNC female	BNC male	BNC female female		TNC female	TNC male	TNC-RP male	FME male	7-16 DIN female	7-16 DIN male	N female	N male	N female (flange)	N female female	N-RP male
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FME male																				
SMA female																				
UHF male																				
7-16 DIN female																				



# Handling Instructions



one-time installation. Whether installed in buildings,

Please refer to the data sheet of each cable for specific

To ensure smooth operation and maximize the lifespan of our coaxial cables, we recommend following the guidelines for cable handling provided.

- Avoid strong mechanical stress on the coaxial cable, such as severe bending, stepping on, sharp edges, unnecessary cuts, etc.
- Do not expose your coaxial cables to high temperatures ( $>85^{\circ}\text{C}$ ).
- Avoid direct contact of the coaxial cable with corrosive liquids.
- If possible, avoid constant and severe bending of the cable. Over time, this can cause damage to the outer conductor. Our coaxial cables are not suitable for drag chains and rotors.
- Pay attention to the tensile stress on your coaxial cable. If cables are installed vertically over longer distances, they must be secured at certain intervals to minimize tensile load.



## Contact

Do you have questions about our products or a specific application?

We will get back to you as soon as possible.  
We appreciate feedback, questions, and your suggestions.



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