



**Product:** [URM43](#)

URM43 - Uni-Radio Coax, 50 Ohm, M43 Type, 20 AWG Solid BC, 91% BC Braid, PVC Jkt

## Product Description

Uni-Radio Coax, 50 Ohm, M43 Type, 20 AWG Solid Bare Copper Conductor, PE Insulation, 91% Bare Copper Braid Shield, PVC Jacket

## Technical Specifications

### Product Overview

Suitable Applications:	Point-to-point and point-to-multipoint wireless antenna communication; Wireless microphones, Two-Way Radios, Amateur (Ham) Radio, Low Power FM, GPS, RFID (Radio Frequency Identification)
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### Construction Details

Series Type:	UR Series
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#### Conductor

No. of Elements	Size	Stranding	Nom. Diameter	Material
1	20 AWG	Solid	0.9 mm	BC - Bare Copper

#### Insulation

Element	Material	Nom. Insulation Diameter
Insulated Conductor	PE - Polyethylene	2.95 mm (0.116 in)

#### Outer Shield

Outer Shield Type	Material	Coverage
Braid	Bare Copper (BC)	91%

#### Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	5 mm

Table Notes:	According to EN 50290-2-20
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### Electrical Characteristics

Regularity of Impedance:	Min. 40 dB
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#### Return Loss (RL)

Frequency	Min. Return Loss
5 - 30 MHz	20 dB
30 - 470 MHz	20 dB
470 - 1000 MHz	18 dB

Table Notes:	In each frequency band, 3 peak values up to 4 dB lower are allowed
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#### Attenuation

Frequency	Nom. Attenuation
100 MHz	13 dB/100m
200 MHz	18.7 dB/100m
300 MHz	23.2 dB/100m
600 MHz	33.8 dB/100m
1000 MHz	44.6 dB/100m

## Electricals

Max. Conductor DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
28 Ohm/km (8.5 Ohm/1000ft)	98 pF/m (30 pF/ft)	50 Ohm	66%

## Voltage

Voltage Rating
4000 V DC / 2000 V RMS

## Mechanical Characteristics

### Temperature

Operating	Installation	Storage
-40°C To +70°C	-5°C To +50°C	-40°C To +70°C

### Bend Radius

Stationary Min.
25 mm (0.98 in)

## Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Eca
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
CENELEC Compliance:	EN 50289
European Directive Compliance:	EU CE Mark
UK Regulation Compliance:	UKCA Mark

## History

Update and Revision:	Revision Number: 0.209 Revision Date: 02-03-2025
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## Part Numbers

### Variants

Item #	Color	Putup Type	Length	EAN
URM43.01100	Black	Reel	100 m	8719605110954
URM43.00500	Black	Reel	500 m	8719605110947

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