



# EUCARAY® Radiating Cables

Short product guide

## EUCARAY® Radiating Cables Selection Guide

Important: Please always check for resonant frequencies

Frequency Bands Applications	75 - 100 MHz FM PMR	150 - 170 MHz PMR	380 - 470 MHz PMR TETRA TETRAPOL	700 - 1000 MHz GSM 900 GSM - R TETRA 5G	1.7 - 1.9 GHz GSM 1800 LTE 5G	1.9 - 2.2 GHz LTE 5G	2.4 - 2.5 GHz ISM WLAN	2.5 - 2.7 GHz LTE 5G	3.4 - 3.8 GHz WIMAX LTE 5G	3.8 - 4.2 GHz 5G	5 - 6 GHz ISM WLAN 5G
<b>"Broadband"</b>											
RMC 58-HLFR	++	++	++	++	++						
RMC 78-HLFR	++	++	++	++	+++	++	++	++	++		
RMC 114-HLFR "A" Series	++	++	++	+++	+++	+++	++	++	++		
RMC 158-HLFR "A" Series	++	++	++	+++	+++	+++	+++	+++	+++		
<b>"Tetra"</b>											
RMC 12-T-HLFR	++	++	+++	+							
RMC 58-T-HLFR	++	++	+++	+							
RMC 78-T-HLFR "A" Series	++	+++	+++	+							
RMC 114-T-HLFR "A" Series	++	+++	+++	+							
RMC 158-T-HLFR "A" Series	+++	+++	+++	+							
<b>"GSM-R"</b>											
RMC 12-B-HLFR	+	++	++	+++	+	+					
RMC 78-B-HLFR "A" Series	++	+++	+++	+++	+	+					
RMC 114-B-HLFR "A" Series	+++	+++	+++	+++	+	+					
RMC 158-B-HLFR "A" Series	+++	+++	+++	+++	+	+					
<b>"LTE &amp; 5G"</b>											
RMC 78-G-HLFR "A" Series	+	+	+	++	++	+++	+++	+++	+++	+++	+++
RMC 114-G-HLFR "A" Series	+	+	+	++	++	+++	+++	+++	+++	+++	+++
RMC 158-E-HLFR "A" Series	+	+	++	++	++	+++	+++	+++	+++	+++	+++
<b>"WLAN 2,4 GHz"</b>											
RC 400-HLFR		+	+	+	++	++	++	++	++	++	++
RMC 12-CL-HLFR	+	+	+	+	++	++	+++				
RMC 78-CL-HLFR "A" Series					+	++	+++				
<b>"WLAN 5-6 GHz"</b>											
RMC 12-CH-HLFR				+	+	+	+	+	+	+	+++
RMC 12-EH-HLFR				+	+	+	++	+	+	+	+++
RMC 58-CH-HLFR				+	+	+	+	++	+	+	+++



### RMC12

- 1/2" Radiating Cables
- **Lightweight and flexible**
- **Ideal for short runs**
- Up to 6GHz
- TETRA, WLAN, LTE and 5G
- **Automation and Buildings**



### RMC78

- 7/8" Radiating Cables
- Lightweight and flexible
- **Very wide band**
- Up to 4,2 GHz
- TETRA, GSM-R, WLAN, LTE and 5G
- **Rail, Metro and Buildings**



### RMC114

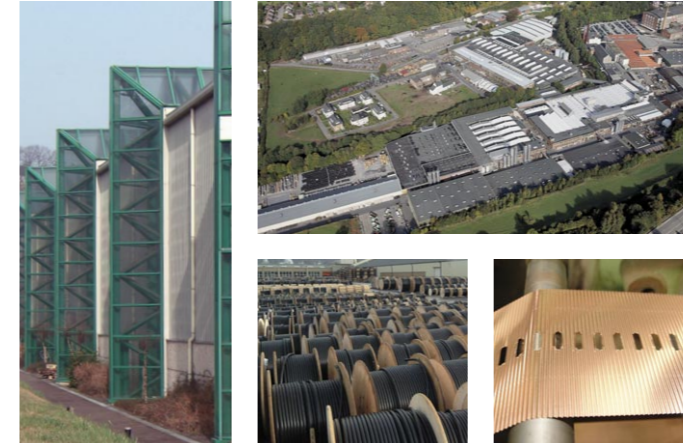
- 1-1/4" – Radiating Cables
- **Low attenuation**
- Up to 3,8 GHz
- TETRA, GSM-R, LTE and 5G
- **Rail, Metro and Transport**
- **MiMo references worldwide**



### RMC158

- 1-5/8" – Radiating Cables
- **Lowest attenuation**
- Up to 2,7 GHz
- TETRA, GSM-R, LTE and 5G
- **Rail, Metro and Transport**
- **MiMo references worldwide**

**MADE IN BELGIUM**  
Available all over the world.



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Kabelwerk **EUPEN** AG  
cable

**Malmedyer Str. 9**  
**4700 EUPEN**  
**BELGIUM**

Tel.: +32(0)87.59.70.00  
[www.radiating-cables.com](http://www.radiating-cables.com)  
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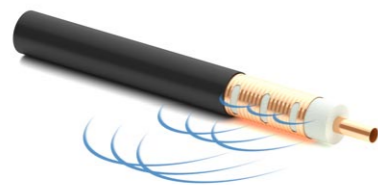
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## EUCARAY® Radiating Cables

- allow the use of radio communication in **confined areas** where other antenna systems get to their limits.
- provide **homogeneous and continuous radio coverage** inside a well-defined area.
- allow high quality radio communication inside complex and confined areas because of **excellent system loss**.
- are able to transmit **multiple frequencies** and so reduce the number of components and complexity in a system.
- are **more robust** than antennas especially in critical areas like hazardous (explosive) areas or with high vibration and abrasion or aggressive atmosphere.
- do not amplify the signal and so are allowed to be used in **hazardous areas** like Atex Zone I and II.



EUCARAY®  
Radiating Cables support MiMo using the same cable for each stream

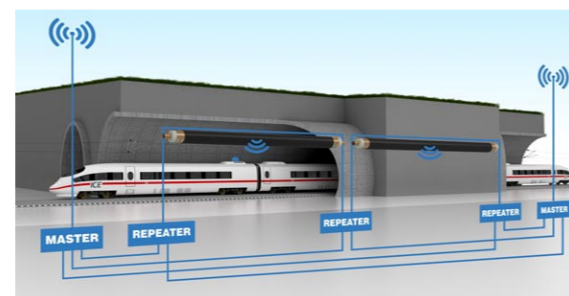


## Applications and Markets

### Confined areas

**Safety applications** in buildings and tunnels or along tracks.

Radio systems for fire and police, interruption of radio for safety messages for public.  
(TETRA(POL), PMR, FM, UHF and more)



### Operation and maintenance

Analogue and digital voice, video and data transmission for operation of trains, in mines, on airports etc. (GSM-R, TDMA, CDMA etc.)

### Public networks and Telecom

Network access to customers inside confined areas (DECT, WLAN, GSM, UMTS, LTE, 5G)

### 4G/5G in infrastructure and industrial areas

Featuring best System Loss and MiMo transmission



### Automation

Extension of Ethernet communication on production lines, automated transport devices, warehouses, mines, refineries and much more.  
(WLAN, Wi-Fi 6E/7, Bluetooth, 5G)



## Accessories

### Connectors and Tools

- available in 4.3-10, DIN 7-16 & "N"-type
- especially designed for EUCARAY® Radiating Cables
- very low PIM < -155dBc
- IP68 watertight without sealing tape
- very fast and reliable installation with dedicated tool



SPTC

### Cable Clamps

- Clic Clamps and Spacers
- new SHK **single piece** Radiating Cable Clamps, suitable for High-Speed train tunnels



Clic Clamp

SKH

- **Made in Belgium**, nearly 100% of production depth
- >40 years of **experience** guarantee highest quality and best lifetime
- **patented** slot technology, defined resonance frequencies, **realistic** measuring methods lead to best performance
- very broad product range offering **dedicated types** of cables for all frequencies and applications
- standard sizes and mounting tools **reduce cost** for installation