



# MOG 50 Ohm coaxial cable RG213U SHF1 unarmoured and armoured



**Store at:** -20 to +60 °C

**Install at:** 0 to +50 °C, **Bend minimum:** 10 times O.D.

**Operate at:** -30 to +70 °C, **Bend minimum:** 5 times O.D

## Design

**Conductor :** stranded bare copper 7×0.75mm

**Dielectric :** low density polyethylene Ø 7.25 ± 0.18 mm

**Screen 1 :** aluminium/poleysther/aluminium tape (width 29mm)

**Screen 2** : bare copper braid (coverage 96%)

**Outer jacket (inner jacket for armoured version):** black Fire Retardant and UV Resistant SHF1 material, LSZH

**Marking** : APS Finland - ww/yy - RG213 MARINE SHF1 - 50 OHM - IEC60332-3-24 Cat C - lot + meter

**Armoured version is supplied with additional:**

**Armour** : galvanized steel wire braid

**Outer jacket** : black Fire Retardant and UV Resistant SHF1 thermoplastic material, LSZH

**Marking** : APS Finland - ww/yy - RG213 MARINE SHF1 ARMOURED - 50 OHM - IEC60332-3-24 Cat C - lot + meter

## **Environmental properties and Fire Performances**

**Degree of acidity of gases** : IEC 60754-1, IEC 60754-2 (pH value  $\geq 4,3$  and Conductivity  $\leq 10\mu\text{S}/\text{mm}$ )

**Halogen acid gas** : IEC 60754-1, IEC 60754-2 (Halogen acid gas emission  $\leq 0.5\%$ )

**Smoke Emission** : IEC 61034-2, EN 50268-2 (Transmittance)  $\geq 60\%$ )

**Toxicity of evolved gas** : EN 50305 9.2

**Flame retardant** : YES - IEC 60332-1-2

**Fire retardant** : YES - IEC 60332-3-22 Cat.A

**Fire resistant** : NO

**Ozone resistant** : available upon request

**Weather resistant** : available upon request

**LSZH SHF2** : available upon request

**Oil resistant** : available upon request

**MUD resistant** : available upon request

**Water resistant** : available upon request

**Water penetration** : available upon request

**UV resistant** : YES - ASTM-D-2565-92A

## Electrical characteristics (IEC60092-350, EN 50290-2-23, IEC61196-1-108)

**Impedance** :  $50 \pm 5 \Omega$

**Capacitance** :  $100 \pm 3 \text{ pF/m}$

**Velocity ratio** : 66%

**Inner conductor resistance @ 500V** :  $36.5 \pm 1.5 \Omega/\text{km}$

**Braid resistance @ 500V** :  $14 \pm 4 \Omega/\text{km}$

**Spark tension of the sheath** : 4.0kV

### Attenuation

MHz	5	10	50	100	200	300	500	600	800	1000	1350	1500	1750	2150	2250	2500	2750	3000
dB	1.4	1.9	3.9	5.6	8.3	10.3	13.7	15.3	17.9	20.3	24.7	26.1	29.8	33.6	34.7	37.1	39.5	41.7

### Return Loss (IEC61196-1-113)

MHz	30 ÷ 300	300 ÷ 600	600 ÷ 1000	1000 ÷ 2000	2000 ÷ 3000
dB	>22	>22	>22	>19	>18

## Ordering and delivery information

Type	P/N	O.D [mm]	Weight [kg/km]	Packaging
RG213U Non-armoured	OC50R213U1	10.3	167.5	500m or 1000m (+/-5%)
RG213U GSWB armoured	OC50R213A1	13.7	303.6	500m (+/-5%)
RG213U TCWB-armoured	OC50R213T1	13.7	290.5	500m (+/-5%)
RG213U BWB armoured	OC50R213B1	13.7	300.6	500m (+/-5%)

## Other standards of reference

IEC 60092-370	Electrical installations in ships: Guidance on the selection of cables for telecommunication and data.
DNV TAP 827.10/20	Type Approval Program - coaxial cables
ABS SVR	Rules for building and classing. Steel Vessels.
ABS SMR	Rules for building and classing. Steel vessels under 90 meters.
MIL-C-17	General specification for radio frequency coaxial cables
IEC61196-1	Coaxial communication cables
EN 50290-2-23	Insulation materials for telecommunication cables



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# MOG 500hm coaxial cable RG214U SHF1 unarmoured and armoured



**Store at:** -20 to +60 °C

**Install at:** 0 to +50 °C

**Bend minimum:** 10 times O.D.

**Operate at:** -30 to +70 °C

**Bend minimum:** 5 times O.D

## Design

**Conductor** : stranded silvered copper 7×0.75mm

**Dielectric** : low density polyethylene Ø 7.25 ± 0.18 mm

**Screen 1** : aluminium/poleysther/aluminium tape (width 29mm)

**Screen 2** : silvered copper braid (coverage 94%)

**Screen 3** : silvered copper braid (coverage 98%)

**Outer jacket (inner jacket for armoured version)**: black Fire Retardant and UV Resistant SHF1 material, LSZH

**Marking** : APS Finland - ww/yy - RG214 MARINE SHF1 - 50 OHM - IEC60332-3-24 Cat.C - lot + meter

### **Armoured version is supplied with additional:**

**Armour** : galvanized steel wire braid

**Outer jacket** : black Fire Retardant and UV Resistant SHF1 thermoplastic material, LSZH

**Marking** : APS Finland - ww/yy - RG214 MARINE SHF1 ARMoured - 50 OHM - IEC60332-3-24 Cat.C - lot + meter

## Environmental properties and Fire Performances

**Degree of acidity of gases** : IEC 60754-1, IEC 60754-2 (pH value ≥ 4,3 and Conductivity ≤10µS/mm)

**Halogen acid gas** : IEC 60754-1, IEC 60754-2 (Halogen acid gas emission ≤ 0.5%)

**Smoke Emission** : IEC 61034-2, EN 50268-2 (Transmittance) ≥ 60%)

**Toxicity of evolved gas** : EN 50305 9.2

**Flame retardant** : YES - IEC 60332-1-2

**Fire retardant** : YES - IEC 60332-3-22 Cat.A

**Fire resistant** : NO

**Ozone resistant** : NO

**Weather resistant** : NO

**LSZH SHF2 : NO**  
**Oil resistant : NO**  
**MUD resistant : NO**  
**Water resistant : NO**  
**Water penetration : NO**  
**UV resistant : YES – ASTM-D-2565-92A**

## **Electrical characteristics (IEC60092-350, EN 50290-2-23, IEC61196-1-108)**

**Impedance :  $50 \pm 3 \Omega$**   
**Capacitance :  $100 \pm 9$  pF/m**  
**Velocity ratio : 66%**  
**Inner conductor resistance @ 500V :  $6 \pm 1.5 \Omega/\text{km}$**   
**Braid resistance @ 500V :  $4.4 \pm 4 \Omega/\text{km}$**   
**Spark tension of the sheath : 5.5 kV**

### **Attenuation**

MHz	5	10	50	100	200	300	500	600	800	1000	1350	1500	1750	2150	2250	2500	2750	3000
dB	1.4	1.9	3.9	5.6	8.3	10.3	13.7	15.3	17.9	20.3	24.7	26.1	29.8	33.6	34.7	37.1	39.5	41.7

### **Return Loss (IEC61196-1-113)**

MHz	30 ÷ 300	300 ÷ 600	600 ÷ 1000	1000 ÷ 2000	2000 ÷ 3000
dB	>22	>22	>22	>19	>18



## Ordering and delivery information

Type	P/N	O.D [mm]	Weight [kg/km]	Packaging
RG213U Non-armoured	OC50R213U1	10.8	2102.2	500m or 1000m (+/-5%)
RG213U GSWB armoured	OC50R213A1	14.8	370.3	500m (+/-5%)
RG213U TCWB- armoured	OC50R213T1	14.8	350.3	500m (+/-5%)
RG213U BWB armoured	OC50R213B1	14.8	365.0	500m (+/-5%)

## Other standards of reference

IEC 60092-370	Electrical installations in ships: Guidance on the selection of cables for telecommunication and data.
DNV TAP 827.10/20	Type Approval Program - coaxial cables
ABS SVR	Rules for building and classing. Steel Vessels.
ABS SMR	Rules for building and classing. Steel vessels under 90 meters.
MIL-C-17	General specification for radio frequency coaxial cables

IEC61196-1	Coaxial communication cables
EN 50290-2-23	Insulation materials for telecommunication cables

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# MOG 500hm coaxial cable RG58CU SHF1 unarmoured and armoured



**Store at:** -40 to +70 °C

**Install at** -10 to +50 °C **Bend minimum:** 15 times O.D.

**Operate at** -30 to +70 °C, **Bend minimum** 10 times O.D.

**Crush maximum :** 2000N/100mm

**Impact maximum:** 25J

## Design

**Conductor :** stranded tinned copper 19×0.18mm

**Dielectric :** low density polyethylene  $\text{Ø}2.95 \pm 0.10$  mm

**Screen 1 :** aluminium/poleysther/aluminium tape (width 15mm)

**Screen 2 :** tinned copper braid (coverage 93%)

**Outer jacket (inner jacket for armoured version):** black Fire Retardant and UV Resistant SHF1 material, LSZH

**Marking :** APS Finland - ww/yy - RG58 MARINE SHF1 - 50 OHM - IEC60332-3-24 Cat C - lot + meter

**Armoured version is supplied with additional:**

**Armour** : galvanized steel wire braid (tinned copper wire and bronze wire braid available upon request)

**Outer jacket** : black Fire Retardant and UV Resistant SHF1 thermoplastic material, LSZH

**Marking** : APS Finland - ww/yy - RG58 MARINE SHF1 "ARMOUR TYPE" - 50 OHM - IEC60332-3-24 Cat C - lot + meter

## **Environmental properties and Fire Performances**

**Degree of acidity of gases** : IEC 60754-1, IEC 60754-2 (pH value  $\geq 4,3$  and Conductivity  $\leq 10\mu\text{S}/\text{mm}$ )

**Halogen acid gas** : IEC 60754-1, IEC 60754-2 (Halogen acid gas emission  $\leq 0.5\%$ )

**Smoke Emission** : IEC 61034-2, EN 50268-2 (Transmittance)  $\geq 60\%$ )

**Toxicity of evolved gas** : NES 713, CEI 20-37/7

**Flame retardant** : YES - IEC 60332-1-2

**Fire retardant** : YES - IEC 60332-3-22 Cat.A

**Fire resistant** : NO

**Ozone resistant** : NO - DIN VDE 0472 part 805 B

**Weather resistant** : YES - ASTM G 154, EN 11507

**LSZH SHF2** : NO - IEC 60092-359:1987-03

**Oil resistant** : NO (oil, fuels and hydrocarbons) - IEC60811

**MUD resistant** : NO - NEK 606:2009

**Water resistant** : YES - IEC60502

**Water penetration** : YES - IEC 60794-1-2-F5-B (inner core only)

**UV resistant** : YES - ASTM-D-2565-92A

## Electrical characteristics (IEC60092-350, EN 50290-2-23, IEC61196-1-108)

**Impedance** :  $50 \pm 3 \Omega$

**Capacitance** :  $100 \pm 9 \text{ pF/m}$

**Velocity ratio** : 66%

**Inner conductor resistance @ 500V** :  $6 \pm 1.5 \Omega/\text{km}$  **Braid resistance @ 500V** :  $4.4 \pm 1.5 \Omega/\text{km}$

**Spark tension of the sheath** : 5.5 kV

### Attenuation

MHz	5	10	50	100	200	300	500	600	800	1000	1350	1500	1750	2150	2250	2500	2750	3000
dB	3.3	4.3	9.9	13.5	19.2	24.0	31.9	35.5	41.6	47.5	57.1	60.8	67.1	77.0	78.8	85.7	88.9	90.7

### Return Loss (IEC61196-1-113)

MHz	30 ÷ 300	300 ÷ 600	600 ÷ 1000	1000 ÷ 2000	2000 ÷ 3000
dB	>28	>23	>20	>15	>15

## Ordering and delivery information

Type	P/N	O.D [mm]	Weight [kg/km]	Packaging
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RG58 Non-armoured	OC50R58U1	5.0	41.0	500m or 1000m (+/-5%)
RG58 GSWB armoured	OC50R58A1	10.0	11.5	500m (+/-5%)
RG58 TCWB armoured	OC50R58T1	10.0	110.0	500m (+/-5%)
RG58 BWB armoured	OC50R58B1	10.0	120.5	500m (+/-5%)

## Other standards of reference

IEC 60092-370	Electrical installations in ships: Guidance on the selection of cables for telecommunication and data.
DNV TAP 827.10/20	Type Approval Program - coaxial cables
ABS SVR	Rules for building and classing. Steel Vessels.
ABS SMR	Rules for building and classing. Steel vessels under 90 meters.
MIL-C-17	General specification for radio frequency coaxial cables
IEC61196-1	Coaxial communication cables
EN 50290-2-23	Insulation materials for telecommunication cables

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# MOG 750hm coaxial cable RG11AU SHF1 unarmoured and armoured



**Store at:** -20 to +60 °C

**Install at:** 0 to +50 °C, **Bend minimum:** 10/20 times O.D.

**Operate at:** -30 to +70 °C, **Bend minimum:** 5/15 times O.D

## Design

**Conductor :** tinned copper 7×0,40mm

**Dielectric :** low density polyethylene Ø 7.25 ± 0.18 mm

**Screen 1 :** aluminium/poleysther/aluminium tape (width 29mm)

**Screen 2 :** bare copper braid (coverage 96%)

**Screen 3 :** N/A

**Outer jacket (inner jacket for armoured version):** black Fire Retardant and UV Resistant SHF1 material, LSZH

**Marking :** APS Finland - ww/yy - RG11 MARINE SHF1 - 75 OHM - IEC60332-3-24 Cat.C - DNV - lot + meter

**Armoured version is supplied with additional:**

**Armour :** galvanized steel wire braid



**Outer jacket** : black Fire Retardant and UV Resistant SHF1 thermoplastic material, LSZH

**Marking** : APS Finland - ww/yy - RG11 MARINE SHF1 ARMOURED - 75 OHM - IEC60332-3-24 Cat.C - DNV - lot + meter

## Environmental properties and Fire Performances

**Degree of acidity of gases** : IEC 60754-1, IEC 60754-2 (pH value  $\geq 4,3$  and Conductivity  $\leq 10\mu\text{S}/\text{mm}$ )

**Halogen acid gas** : IEC 60754-1, IEC 60754-2 (Halogen acid gas emission  $\leq 0.5\%$ )

**Smoke Emission** : IEC 61034-2, EN 50268-2 (Transmittance)  $\geq 60\%$ )

**Toxicity of evolved gas** : EN 50305 9.2

**Flame retardant** : YES - IEC 60332-1-2

**Fire retardant** : YES - IEC 60332-3-22 Cat.A

**Fire resistant** : NO

**Ozone resistant** : NO

**Weather resistant** : NO

**LSZH SHF2** : NO

**Oil resistant** : NO

**MUD resistant** : NO

**Water resistant** : NO

**Water penetration** : NO

**UV resistant** : YES - ASTM-D-2565-92A

## Electrical characteristics (IEC60092-350, EN 50290-2-23, IEC61196-1-108)

**Impedance :**  $75 \pm 3 \Omega$

**Capacitance :**  $67 \pm 3 \text{ pF/m}$

**Velocity ratio :** 66%

**Inner conductor resistance @ 500V :**  $20.5 \pm 1.5 \Omega/\text{km}$

**Braid resistance @ 500V :**  $4.4 \pm 1.5 \Omega/\text{km}$  Spark tension of the sheath : 5.5 kV

### Attenuation

MHz	5	10	50	100	200	300	500	600	800	1000	1350	1500	1750	2150	2250	2500	2750	3000
dB	1.4	2.0	5.0	7.2	10.5	13.0	17.1	19.0	22.4	25.5	30.4	32.5	35.6	40.9	41.6	44.1	46.5	50.1

### Return Loss (IEC61196-1-113)

MHz	30 ÷ 300	300 ÷ 600	600 ÷ 1000	1000 ÷ 2000	2000 ÷ 3000
dB	>27	>27	>23	>18	>16

## Ordering and delivery information

Type	P/N	O.D [mm]	Weight [kg/km]	Packaging		
RG11U Non-armoured	OC75R11U1	10.3	149.6	500m or 1000m (+/-5%)		

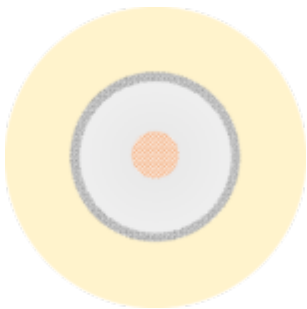
Type	P/N	O.D [mm]	Weight [kg/km]	Packaging		
RG11U GSWB armoured	OC75R11A1	13.7	285.7	500m (+/-5%)		
RG11U TCWB armoured	OC75R11T1	13.7	265.0	500m (+/-5%)		
RG11U BWB armoured	OC75R11B1	13.7	270.0	500m (+/-5%)		

## Other standards of reference

IEC 60092-370	Electrical installations in ships: Guidance on the selection of cables for telecommunication and data.
DNV TAP 827.10/20	Type Approval Program - coaxial cables
ABS SVR	Rules for building and classing. Steel Vessels.
ABS SMR	Rules for building and classing. Steel vessels under 90 meters.
MIL-C-17	General specification for radio frequency coaxial cables
IEC61196-1	Coaxial communication cables
EN 50290-2-23	Insulation materials for telecommunication cables

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## **Coaxial cable 50 Ohm PLENUM RG58/U**



**Store at:** -40 to +70 °C

**Install at** -10 to +50 °C, **Bend minimum** 15 times O.D.

**Operate at** -40 to +200°C, **Bend minimum** 10 times O.D.

**Max recommended pulling tension** 40 lbs

## Design

**Conductor** : stranded barecopper AWG20 19×32

**Dielectric** : foam FEP 0.102"

**Screen 1** : tinned copper braid coverage 95%

**Outer jacket** : Ivory FEP 0.158" nom.

**Marking** : APS Finland - ww/yy - RG58 PLENUM - 50 OHM - 200°C FT6 - lot + ft

Note : the Jacket is sequentially footmarked.

## Environmental properties and Fire Performances

**Flame retardant** : NFPA 262 PLENUM, FT6

## Electrical characteristics

**Impedance** : 52 Ω nominal

**Capacitance** : 25 pF/ft nominal (@ 1KHz)

**Velocity ratio** : 82%

**DC resistance @ 20°C** : 8.8 Ω/1m nominal

## Attenuation

<b>MHz</b>	<b>1</b>	<b>10</b>	<b>50</b>	<b>100</b>	<b>400</b>	<b>700</b>	<b>900</b>	<b>1000</b>
dB/100FT	0.5	1.3	3.2	4.9	11.1	15.3	18.4	19.6

## Ordering and delivery information

<b>Type</b>	<b>P/N</b>	<b>O.D [in / mm]</b>	<b>Weight [lbs/m / kg/m]</b>	<b>Packaging (standard)</b>
RG58/U PLENUM	C50R58P	0.158 / 4.0	0.17 / 7.72	1000ft or 305m (+/-5%)

## Other standards of reference

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# MOG 750hm coaxial cable RG59BU SHF1 unarmoured and armoured



**Store at:** -20 to +60 °C

**Install at:** 0 to +50 °C, **Bend minimum:** 10/20 times O.D.

**Operate at:** -30 to +70 °C, **Bend minimum:** 5/15 times O.D.

## Design

**Conductor :** copperweld  $\varnothing 0.58 \pm 0.025$  mm

**Dielectric :** low density polyethylene  $\varnothing 3.70 \pm 0.15$  mm

**Screen 1 :** aluminium/poleysther/aluminium tape (width 18mm)

**Screen 2 :** bare copper braid (coverage 93%)

**Screen 3 :** N/A

**Outer jacket (inner jacket for armoured version):** black Fire Retardant and UV Resistant SHF1 material, LSZH

**Marking :** APS Finland - ww/yy - RG59 MARINE SHF1 - 75 OHM - IEC60332-3-24



Cat.C - DNV - lot + meter

**Armoured version is supplied with additional:**

**Armour** : galvanized steel wire braid

**Outer jacket** : black Fire Retardant and UV Resistant SHF1 thermoplastic material, LSZH

**Marking** : APS Finland - ww/yy - RG59 MARINE SHF1 ARMOURED - 75 OHM - IEC60332-3-24 Cat.C - DNV - lot + meter

## **Environmental properties and Fire Performances**

**Degree of acidity of gases** : IEC 60754-1, IEC 60754-2 (pH value  $\geq 4,3$  and Conductivity  $\leq 10\mu\text{S}/\text{mm}$ )

**Halogen acid gas** : IEC 60754-1, IEC 60754-2 (Halogen acid gas emission  $\leq 0.5\%$ )

**Smoke Emission** : IEC 61034-2, EN 50268-2 (Transmittance)  $\geq 60\%$

**Toxicity of evolved gas** : EN 50305 9.2

**Flame retardant** : YES - IEC 60332-1-2

**Fire retardant** : YES - IEC 60332-3-22 Cat.A

**Fire resistant** : NO

**Ozone resistant** : NO

**Weather resistant** : NO

**LSZH SHF2** : NO

**Oil resistant** : NO

**MUD resistant** : NO

**Water resistant** : NO

**Water penetration** : NO

**UV resistant** : YES - ASTM-D-2565-92A

## Electrical characteristics (IEC60092-350, EN 50290-2-23, IEC61196-1-108)

**Impedance :**  $75 \pm 3 \Omega$

**Capacitance :**  $67 \pm 3 \text{ pF/m}$

**Velocity ratio :** 66%

**Inner conductor resistance @ 500V :**  $154 \pm 5 \Omega/\text{km}$

**Braid resistance @ 500V :**  $9 \pm 3 \Omega/\text{km}$

**Spark tension of the sheath :** 4.5 kV

### Attenuation

MHz	5	10	50	100	200	300	500	600	800	1000	1350	1500	1750	2150	2250	2500	2750	3000
dB	2.7	3.4	7.3	10.7	15.0	18.6	24.8	27.0	31.5	35.6	41.7	44.8	49.2	55.6	59.7	63.0	67.7	50.1

### Return Loss (IEC61196-1-113)

MHz	30 ÷ 300	300 ÷ 600	600 ÷ 1000	1000 ÷ 2000	2000 ÷ 3000
dB	>28	>23	>18	>14	>14

## Ordering and delivery information

Type	P/N	O.D [mm]	Weight [kg/km]	Packaging
RG59BU Non-armoured	OC75R59U1	6.2	57.2	500m or 1000m (+/-5%)

Type	P/N	O.D [mm]	Weight [kg/km]	Packaging
RG59BU GSWB armoured	OC75R59A1	9.4	144.2	500m (+/-5%)
RG59BU TCWB armoured	OC75R59T1	9.4	130.0	500m (+/-5%)
RG59BU BWB armoured	OC75R59B1	9.4	140.5	500m (+/-5%)

## Other standards of reference

IEC 60092-370	Electrical installations in ships: Guidance on the selection of cables for telecommunication and data.
DNV TAP 827.10/20	Type Approval Program - coaxial cables
ABS SVR	Rules for building and classing. Steel Vessels.
ABS SMR	Rules for building and classing. Steel vessels under 90 meters.
MIL-C-17	General specification for radio frequency coaxial cables
IEC61196-1	Coaxial communication cables
EN 50290-2-23	Insulation materials for telecommunication cables

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# MOG 750hm multi-coaxial cable 3 x RG59BU LSZH



**Store at:** -20 to +60 °C

**Install at:** 0 to +50 °C, **Bend minimum:** 10/20 times O.D.

**Operate at:** -30 to +70 °C, **Bend minimum:** 5/15 times O.D.

## Design

**Conductor :** copperweld Ø 0.58 ± 0.025 mm

**Dielectric :** low density polyethylene Ø 3.70 ± 0.15 mm

**Screen 1 :** aluminium/poleyster/aluminium tape (width 18mm)

**Screen 2 :** bare copper braid (coverage 93%)

**Jacket 1 :** black Fire Retardant LSZH material, white numbered 1 to 3

**Assembling :** 3 numbered coaxial cables stranded together into a compact core, with fillers if needed (fillers are always used for the armoured version).

**Jacket 2 :** black Fire Retardant LSZH material

**Marking :** APS Finland - ww/yy - 3 x RG59 BU - 75 OHM - LSZH - lot + meter

### **Armoured version is supplied with additional:**

**Armour :** galvanized steel, copper or bronze wire braid

**Outer jacket :** black LSZH Fire Retardant and UV Resistant thermoplastic material

**Marking :** APS Finland - ww/yy - ARMoured 3 x RG59 BU - 75 OHM - LSZH UVR - lot + meter

## Environmental properties and Fire Performances

**Degree of acidity of gases** : IEC 60754-1, IEC 60754-2

**Halogen acid gas** : IEC 60754-1, IEC 60754-2

**Smoke Emission** : IEC 61034-2, EN 50268-2

**Toxicity of evolved gas** : EN 50305 9.2

**Flame retardant** : IEC 60332-1-2

## Electrical characteristics (IEC60092-350, EN 50290-2-23, IEC61196-1-108)

**Impedance** :  $75 \pm 3 \Omega$

**Capacitance** :  $67 \pm 3 \text{ pF/m}$

**Velocity ratio** : 66%

**Inner conductor resistance @ 500V** :  $154 \pm 5 \Omega/\text{km}$

**Braid resistance @ 500V** :  $9 \pm 3 \Omega/\text{km}$

**Spark tension of the sheath** : 4.5 kV

### Attenuation

MHz	5	10	50	100	200	300	500	600	800	1000	1350	1500	1750	2150	2250	2500	2750	3000
dB	2.7	3.4	7.3	10.7	15.0	18.6	24.8	27.0	31.5	35.6	41.7	44.8	49.2	55.6	59.7	63.0	67.7	50.1

### Return Loss (IEC61196-1-113)

<b>MHz</b>	<b>30 ÷ 300</b>	<b>300 ÷ 600</b>	<b>600 ÷ 1000</b>	<b>1000 ÷ 2000</b>	<b>2000 ÷ 3000</b>
dB	>28	>23	>18	>14	>14

## Ordering and delivery information

Type	P/N	Nom. diam. [mm] Single cable	Nom. O.D [mm]	Weight [kg/km]	Packaging
RG59BU Non-arm.	C75R59UZ	6.2	14.0	186.6	500m (+/-5%)
RG59BU GSWB	C75R59AZ	6.2	18.0	447.6	500m (+/-5%)
RG59BU TCWB	C75R59TZ	6.2	18.0	405.0	500m (+/-5%)
RG59BU BWB	C75R59BZ	6.2	18.0	436.5	500m (+/-5%)

## Other standards of reference

MIL-C-17	General specification for radio frequency coaxial cables
IEC61196-1	Coaxial communication cables
EN 50290-2-23	Insulation materials for telecommunication cables

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# MOG 750hm coaxial cable RG6AU SHF1 unarmoured and armoured



**Store at:** -20 to +60 °C

**Install at:** 0 to +50 °C, **Bend minimum:** 10/20 times O.D.

**Operate at:** -30 to +70 °C, **Bend minimum:** 5/15 times O.D.

## Design

**Conductor :** copperweld  $\varnothing$  0,72  $\pm$  0.025 mm

**Dielectric :** low density polyethylene  $\varnothing$  4.70  $\pm$  0.20 mm

**Screen 1 :** aluminium/poleysther/aluminium tape (width 20mm)

**Screen 2** : silvered copper braid (coverage 96%)

**Screen 3** : plain copper braid (coverage 96%)

**Outer jacket (inner jacket for armoured version):** black Fire Retardant and UV Resistant SHF1 material, LSZH

**Marking** : APS Finland - ww/yy - RG6 MARINE SHF1 - 75 OHM - IEC60332-3-24 Cat.C - lot + meter

**Armoured version is supplied with additional:**

**Armour** : galvanized steel wire braid

**Outer jacket** : black Fire Retardant and UV Resistant SHF1 thermoplastic material, LSZH

**Marking** : APS Finland - ww/yy - RG6 MARINE SHF1 ARMoured - 75 OHM - IEC60332-3-24 Cat.C - DNV - lot + meter

## **Environmental properties and Fire Performances**

**Degree of acidity of gases** : IEC 60754-1, IEC 60754-2 (pH value  $\geq 4,3$  and Conductivity  $\leq 10\mu\text{S}/\text{mm}$ )

**Halogen acid gas** : IEC 60754-1, IEC 60754-2 (Halogen acid gas emission  $\leq 0.5\%$ )

**Smoke Emission** : IEC 61034-2, EN 50268-2 (Transmittance)  $\geq 60\%$ )

**Toxicity of evolved gas** : EN 50305 9.2

**Flame retardant** : YES - IEC 60332-1-2

**Fire retardant** : YES - IEC 60332-3-22 Cat.A

**Fire resistant** : NO

**Ozone resistant** : NO

**Weather resistant** : NO

**LSZH SHF2** : NO

**Oil resistant** : NO

**MUD resistant** : NO

**Water resistant :** NO

**Water penetration :** NO

**UV resistant :** YES – ASTM-D-2565-92A

## Electrical characteristics (IEC60092-350, EN 50290-2-23, IEC61196-1-108)

**Impedance :**  $75 \pm 3 \Omega$  Capacitance :  $67 \pm 3$  pF/m

**Velocity ratio :** 66%

**Inner conductor resistance @ 500V :**  $97 \pm 3 \Omega/\text{km}$

**Braid resistance @ 500V :**  $5 \pm 3 \Omega/\text{km}$

**Spark tension of the sheath :** 6 kV

### Attenuation

MHz	5	10	50	100	200	300	500	600	800	1000	1350	1500	1750	2150	2250	2500	2750	3000
dB	2.0	2.8	6.0	8.5	12.0	15.0	19.8	21.9	25.5	29.1	34.2	36.6	39.9	45.6	46.5	49.4	52.0	55.8
						4												

### Return Loss (IEC61196-1-113)

MHz	30 ÷ 300	300 ÷ 600	600 ÷ 1000	1000 ÷ 2000	2000 ÷ 3000
dB	>28	>20	>19	>16	>15

## Ordering and delivery information

Type	P/N	O.D [mm]	Weight [kg/km]	Packaging		
RG6AU Non-armoured	OC75R6U1	8.5	125.5	500m or 1000m (+/-5%)		
RG6AU GSWB armoured	OC75R6A1	11.5	229.4	500m (+/-5%)		
RG6AU TCWB armoured	OC75R6T1	11.5	208.5	500m (+/-5%)		
RG6AU BWB armoured	OC75R6B1	11.5	219.5	500m (+/-5%)		

## Other standards of reference

IEC 60092-370	Electrical installations in ships: Guidance on the selection of cables for telecommunication and data.
DNV TAP 827.10/20	Type Approval Program - coaxial cables
ABS SVR	Rules for building and classing. Steel Vessels.
ABS SMR	Rules for building and classing. Steel vessels under 90 meters.
MIL-C-17	General specification for radio frequency coaxial cables
IEC61196-1	Coaxial communication cables
EN 50290-2-23	Insulation materials for telecommunication cables



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