Ramcro

special cables

GENERAL CABLE CATALOGUE

GENERAL CABLE
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GENERAL

CABLE CATALOGUE

ALARM CABLE

Standard Version

CABLES FOR CIVIL AND INDUSTRIAL SAFETY PLANTS

Standard Version

CONSTRUCTION

Formation:
Plain annealed copper wire
Insulation:
Polyvinyl chloride - PVC
Collective Screen:
0,026 mm Aluminium / PETP tape over drain wire
Rip Cord:
Nylon rip-cord
Outher Sheath:
Polyvinyl chloride - PVC
Colour Outher Sheath:
White

STANDARD REFERENCES

- *BS 4737*
- *IEC 60228*
- *CEI 20-11*
- *EN 50363*
- *CEI UNEL 36762*

ON REQUEST

- **Armour in SWA, SWB or STA**
- **Personalized colour code and outher sheath**

IDENTIFICATION OF CORES

0,22 mm2:
0,50/0,75 mm2:

CPR CLASSIFICATION

EN 50575:2016 - C_{CA} s1, d0, a3

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

CABLE PRINTING

RAMCRO SPA ALARM CABLE FIRE RETARDANT <YEAR> IEC 60332-3-24 EN 50575:2014 + A1:2016 CPR CLASS Cca s1, d0, a3 CEI 20-22 III CEI UNEL 36762 C-4(Uo=400V) + BATCH

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 25 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 150 nF/km

Inductance:
< 1 mH/km

Operating Voltage:
300 V

CHARACTERISTICS

Alarm Cable

Min. Bending Radius
10 x cable diameter

Fixed Laying

PACKAGE: 100, 500, 1000 mt

WARNING

These cables can be installed along with power cables marked 450/750 V or 0,6/1 kV operating with systems having maximum voltage to ground 400 V AC

CABLES FOR CIVIL AND INDUSTRIAL SAFETY PLANTS

Standard Version

RAMCRO CODE	FORMATION [n° x mm²]	OUTER DIAMETER [mm]	MAX RESISTANCE AT 20°C [Ohm/km]
SAS0222GCSNA+	2x0.22	2.9	122.0
SAS0422GCSNA+	4x0.22	3.4	122.0
SAS0622GCSNA+	6x0.22	3.9	122.0
SAS0822GCSNA+	8x0.22	4.1	122.0
SAS1022GCSNA+	10x0.22	4.8	122.0
SAS1222GCSNA+	12x0.22	4.9	122.0
SAC02500222GCSNB+	2x0.50 + 2x0.22	4.0	53.0 | 122.0
SAC02500422GCSNB+	2x0.50 + 4x0.22	4.5	53.0 | 122.0
SAC02500622GCSNB+	2x0.50 + 6x0.22	4.8	53.0 | 122.0
SAC02500822GCSNB+	2x0.50 + 8x0.22	5.4	53.0 | 122.0
SAC02501022GCSNB+	2x0.50 + 10x0.22	5.5	53.0 | 122.0
SAC02501222GCSNB+	2x0.50 + 12x0.22	5.7	53.0 | 122.0
SAC02750222GCSNB+	2x0.75 + 2x0.22	4.4	36.0 | 122.0
SAC02750422GCSNB+	2x0.75 + 4x0.22	4.8	36.0 | 122.0
SAC02750622GCSNB+	2x0.75 + 6x0.22	5.1	36.0 | 122.0
SAC02750822GCSNB+	2x0.75 + 8x0.22	5.7	36.0 | 122.0
SAC02751022GCSNB+	2x0.75 + 10x0.22	5.8	36.0 | 122.0
SAC02751222GCSNB+	2x0.75 + 12x0.22	6.0	36.0 | 122.0

ALARM CABLE

Standard Version for external use

CABLES FOR CIVIL AND INDUSTRIAL SAFETY PLANTS

Standard Version for external use

CONSTRUCTION

Formation:
Plain annealed copper wire
Insulation:
Polyvinyl chloride - PVC
Collective Screen:
0,026 mm Aluminium / PETP tape over drain wire
Rip Cord:
Nylon rip-cord
Outher Sheath:
Polyvinyl chloride - PVC
Colour Outher Sheath:
Blue

STANDARD REFERENCES

- BS 4737
- IEC 60228
- CEI 20-11
- EN 50363
- CEI UNEL 36762

ON REQUEST

- Armour in SWA, SWB or STA
- Personalized colour code and outher sheath

IDENTIFICATION OF CORES

0,22 mm2:
0,50/0,75 mm2:

CPR CLASSIFICATION

EN 50575:2016 - C_{CA} s1, d0, a1

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

CABLE PRINTING

RAMCRO SPA ALARM CABLE FIRE RETARDANT <YEAR> IEC 60332-3-24 EN 50575:2014 + A1:2016 CPR CLASS Cca s1, d0, a3 CEI 20-22 III CEI UNEL 36762 C-4(Uo=400V) + BATCH

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 25 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 150 nF/km

Inductance:
< 1 mH/km

Operating Voltage:
300 V

CHARACTERISTICS

Alarm Cable

Min. Bending Radius
10 x cable diameter

Direct Buried

PACKAGE: 200, 1000 mt

WARNING

These cables can be installed along with power cables marked 450/750 V or 0,6/1 kV operating with systems having maximum voltage to ground 400 V AC

Via Marzorati, 15 - 20014 Nerviano - Milan - Italy / www.ramcro.com

CABLES FOR CIVIL AND INDUSTRIAL SAFETY PLANTS

Standard Version for external use

RAMCRO CODE	FORMATION [n° x mm²]	OUTER DIAMETER [mm]	MAX RESISTANCE AT 20°C [Ohm/km]
SAS0222IDSNA+	2x0.22	4.2	122.0
SAS0422IDSNA+	4x0.22	4.6	122.0
SAS0622IDSNA+	6x0.75	5.1	122.0
SAS0822IDSNA+	8x0.75	5.5	122.0
SAS1022IDSNA+	10x0.75	6.0	122.0
SAS1222IDSNA+	12x0.75	6.1	122.0
SAC02500222IDSNB+	2x0.50 + 2x0.22	5.2	53.0 | 122.0
SAC02500422IDSNB+	2x0.50 + 4x0.22	5.7	53.0 | 122.0
SAC02500622IDSNB+	2x0.50 + 6x0.22	6.0	53.0 | 122.0
SAC02500822IDSNB+	2x0.50 + 8x0.22	6.8	53.0 | 122.0
SAC02501022IDSNB+	2x0.50 + 10x0.22	6.9	53.0 | 122.0
SAC02501222IDSNB+	2x0.50 + 12x0.22	7.0	53.0 | 122.0
SAC02750222IDSNB+	2x0.75 + 2x0.22	5.8	36.0 | 122.0
SAC02750422IDSNB+	2x0.75 + 4x0.22	6.2	36.0 | 122.0
SAC02750622IDSNB+	2x0.75 + 6x0.22	6.4	36.0 | 122.0
SAC02750822IDSNB+	2x0.75 + 8x0.22	7.1	36.0 | 122.0
SAC02751022IDSNB+	2x0.75 + 10x0.22	7.2	36.0 | 122.0
SAC02751222IDSNB+	2x0.75 + 12x0.22	7.3	36.0 | 122.0

ALARM CABLE

Standard Version LSZH

CABLES FOR CIVIL AND INDUSTRIAL SAFETY PLANTS

Standard Version

CONSTRUCTION

Formation:
Plain annealed copper wire
Insulation:
Thermoplastic Low Smoke, Halogen Free - LSZH
Wrapping:
at least 1 layer of plastic tape 0,023 mm
Collective Screen:
0,026 mm Aluminium / PETP tape over drain wire
Outher Sheath:
Thermoplastic Low Smoke, Halogen Free - LSZH
Colour Outher Sheath:
White

STANDARD REFERENCES

- *BS 4737*
- *IEC 60228*
- *CEI 20-11*
- *EN 50363*
- *CEI UNEL 36762*

ON REQUEST

- **Armour in SWA, SWB or STA**
- **Personalized colour code and outher sheath**

IDENTIFICATION OF CORES

0,22 mm2:
0,50/0,75 mm2:

CPR CLASSIFICATION

EN 50575:2016 - C_{CA} s1, d0, a1

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

CABLE PRINTING

RAMCRO SPA ALARM CABLE FIRE RETARDANT <YEAR> IEC 60332-3-24 EN 50575:2014 + A1:2016 CPR CLASS Cca s1, d0, a1 CEI 20-22 III CEI UNEL 36762 C-4(Uo=400V) + BATCH

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 25 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 150 nF/km

Inductance:
< 1 mH/km

Operating Voltage:
300 V

CHARACTERISTICS

Low Smoke Halogen Free

Min. Bending Radius
8 x cable diameter

Fixed Laying

PACKAGE: 100, 500, 1000 mt

WARNING

These cables can be installed along with power cables marked 450/750 V or 0,6/1 kV operating with systems having maximum voltage to ground 400 V AC

ALARM CABLE

Standard Version LSZH

CABLES FOR CIVIL AND INDUSTRIAL SAFETY PLANTS

Standard Version

RAMCRO CODE	FORMATION [n° x mm²]	OUTER DIAMETER [mm]	MAX RESISTANCE AT 20°C [Ohm/km]
SAS0222GCYKA+	2x0.22	3.2	122.0
SAS0422GCYKA+	4x0.22	3.6	122.0
SAS0622GCYKA+	6x0.22	4.1	122.0
SAS0822GCYKA+	8x0.22	4.5	122.0
SAS1022GCYKA+	10x0.22	5.2	122.0
SAS1222GCYKA+	12x0.22	5.3	122.0
SAC02500222GCYKB+	2x0.50 + 2x0.22	4.0	53.0 | 122.0
SAC02500422GCYKB+	2x0.50 + 4x0.22	4.5	53.0 | 122.0
SAC02500622GCYKB+	2x0.50 + 6x0.22	4.8	53.0 | 122.0
SAC02500822GCYKB+	2x0.50 + 8x0.22	5.4	53.0 | 122.0
SAC02501022GCYKB+	2x0.50 + 10x0.22	5.5	53.0 | 122.0
SAC02501222GCYKB+	2x0.50 + 12x0.22	5.7	53.0 | 122.0
SAC02750222GCYKB+	2x0.75 + 2x0.22	4.6	36.0 | 122.0
SAC02750422GCYKB+	2x0.75 + 4x0.22	4.9	36.0 | 122.0
SAC02750622GCYKB+	2x0.75 + 6x0.22	5.3	36.0 | 122.0
SAC02750822GCYKB+	2x0.75 + 8x0.22	6.2	36.0 | 122.0
SAC02751022GCYKB+	2x0.75 + 10x0.22	6.3	36.0 | 122.0
SAC02751222GCYKB+	2x0.75 + 12x0.22	6.5	36.0 | 122.0

ALARM CABLE

Standard Version for external use LSZH

CABLES FOR CIVIL AND INDUSTRIAL SAFETY PLANTS

Standard Version for external use

CONSTRUCTION

Formation:
Copper Claded Aluminium,
Insulation:
Thermoplastic Low Smoke, Halogen Free - LSZH
Wrapping:
at least 1 layer of plastic tape 0,023 mm
Collective Screen:
0,026 mm Aluminium / PETP tape over drain wire
Outher Sheath:
Thermoplastic Low Smoke, Halogen Free - LSZH
Colour Outher Sheath:
Blue

STANDARD REFERENCES

- *BS 4737*
- *IEC 60228*
- *CEI 20-11*
- *EN 50363*
- *CEI UNEL 36762*

ON REQUEST

- **Armour in SWA, SWB or STA**
- **Personalized colour code and outher sheath**

IDENTIFICATION OF CORES

0,22 mm2:
0,50/0,75 mm2:

CPR CLASSIFICATION

EN 50575:2016 - C_{CA} s1, d0, a1

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

CABLE PRINTING

RAMCRO SPA ALARM CABLE FIRE RETARDANT <YEAR> IEC 60332-3-24 EN 50575:2014 + A1:2016 CPR CLASS Cca s1, d0, a1 CEI 20-22 III CEI UNEL 36762 C-4(Uo=400V) + BATCH

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 25 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 150 nF/km

Inductance:
< 1 mH/km

Operating Voltage:
300 V

CHARACTERISTICS

Low Smoke Halogen Free

Min. Bending Radius
8 x cable diameter

Direct Buried

PACKAGE: 200, 1000 mt

WARNING

These cables can be installed along with power cables marked 450/750 V or 0,6/1 kV operating with systems having maximum voltage to ground 400 V AC

ALARM CABLE

Standard Version for external use LSZH

CABLES FOR CIVIL AND INDUSTRIAL SAFETY PLANTS

Standard Version for external use

RAMCRO CODE	FORMATION [n° x mm²]	OUTER DIAMETER [mm]	MAX RESISTANCE AT 20°C [Ohm/km]
SAS0222IDYKA+	2x0.22	4.4	122.0
SAS0422IDYKA+	4x0.22	4.8	122.0
SAS0622IDYKA+	6x0.22	5.4	122.0
SAS0822IDYKA+	8x0.22	5.8	122.0
SAS1022IDYKA+	10x0.22	6.4	122.0
SAS1222IDYKA+	12x0.22	5.2	122.0
SAC02500222IDYKB+	2x0.50 + 2x0.22	5.2	53.0 | 122.0
SAC02500422IDYKB+	2x0.50 + 4x0.22	5.7	53.0 | 122.0
SAC02500622IDYKB+	2x0.50 + 6x0.22	6.0	53.0 | 122.0
SAC02500822IDYKB+	2x0.50 + 8x0.22	6.8	53.0 | 122.0
SAC02501022IDYKB+	2x0.50 + 10x0.22	6.9	53.0 | 122.0
SAC02501222IDYKB+	2x0.50 + 12x0.22	7.1	53.0 | 122.0
SAC02750222IDYKB+	2x0.75 + 2x0.22	5.9	36.0 | 122.0
SAC02750422IDYKB+	2x0.75 + 4x0.22	6.3	36.0 | 122.0
SAC02750622IDYKB+	2x0.75 + 6x0.22	6.7	36.0 | 122.0
SAC02750822IDYKB+	2x0.75 + 8x0.22	7.6	36.0 | 122.0
SAC02751022IDYKB+	2x0.75 + 10x0.22	7.7	36.0 | 122.0
SAC02751222IDYKB+	2x0.75 + 12x0.22	8.1	36.0 | 122.0

CONTROL CABLE

LiYY

These cables are used for power supply and control signal transmission in mechanical engineering for tooling machinery, for production lines and transport equipment, as well as in industrial installations.
They meet the requirements of the EEC directive concerning electromagnetic compatibility (EMC), and ensure interference-free transmission providing protection against external pulses.

CONSTRUCTION

Formation:
Plain annealed copper wire, Multistrand
Insulation:
Polyvinyl chloride - PVC
Outher Sheath:
Polyvinyl chloride Flame Retardant - PVC FR
Colour Outher Sheath:
Grey RAL 7001

STANDARD REFERENCES

- *VDE 0812*
- *IEC 60332-1*
- *IEC 60332-3-24*

CPR CLASSIFICATION

EN 50575:2016 - $B2_{CA}$ s2, d0, a3*

***Avaiable also in EN 50575:2016 - C_{CA} s2, d0, a3**

IDENTIFICATION OF CORES

- In according to DIN VDE 47100
- **OZ:** Black Numbered
- **JZ:** Black Numbered + Green/Yellow

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

CABLE PRINTING

RAMCRO - LiYY 2x0.14 mm2 - 450/750V - VDE 0812 - IEC 60332-3 - EN 50575: 2014+A1:2016 CPR Class B2ca + BATCH + METER MARKING

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 25 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 150 nF/km

Inductance:
< 1 mH/km

Operating Voltage:
From 0,14 mm2 to 0,75 mm2: 300/500 V
From 1,00 mm2 to 4,00 mm2: 450/750 V

CHARACTERISTICS

Min. Bending Radius
8 x cable diameter

Control Cable

European Market

PACKAGE:



ON REQUEST

Personalized colour code and outher sheath

CONTROL CABLE

LiYY

From 0,14 mm² to 4,00 mm²

RAMCRO CODE	FORMATION [n° x mm²]	OUTER DIAMETER [mm]	MAX RESISTANCE AT 20°C [Ohm/km]
SSS0214HBSAC	2x0.14	3.3	154.0
SSS0414HBSAC	4x0.14	3.6	154.0
SSS0814HBSAC	8x0.14	4.5	154.0
SSS1014HBSAC	10x0.14	5.3	154.0
SSS0226HBSAC	2x0.25	3.8	83.1
SSS0426HBSAC	4x0.25	4.1	83.1
SSS0826HBSAC	8x0.25	5.4	83.1
SSS1026HBSAC	10x0.25	6.4	83.1
SSS0234HBSAC	2x0.34	3.9	57.2
SSS0434HBSAC	4x0.34	4.3	57.2
SSS0834HBSAC	8x0.34	5.7	57.2
SSS1034HBSAC	10x0.34	6.6	57.2
SSS0250HBSAC	2x0.50	4.5	40.6
SSS0450HBSAC	4x0.50	5.0	40.6
SSS0850HBSAC	8x0.50	6.9	40.6
SSS1050HBSAC	10x0.50	7.8	40.6
SSS0275HBSAC	2x0.75	4.9	27.1
SSS0475HBSAC	4x0.75	5.6	27.1
SSS0875HBSAC	8x0.75	7.5	27.1
SSS1075HBSAC	10x0.75	9.0	27.1
SSS0210HBSAC	2x1.00	5.5	20.3
SSS0410HBSAC	4x1.00	6.3	20.3
SSS0810HBSAC	8x1.00	8.6	20.3
SSS1010HBSAC	10x1.00	9.8	20.3
SSS0215HBSAC	2x1.50	6.5	13.8
SSS0415HBSAC	4x1.50	7.2	13.8
SSS0815HBSAC	8x1.50	9.8	13.8
SSS1015HBSAC	10x1.50	11.6	13.8
SSS0225HBSAC	2x2.50	7.7	8.3
SSS0425HBSAC	4x2.50	9.0	8.3
SSS0825HBSAC	8x2.50	12.5	8.3
SSS1025HBSAC	10x2.50	14.4	8.3
SSS0240HBSAC	2x4.00	9.4	5.1
SSS0440HBSAC	4x4.00	10.8	5.1
SSS0840HBSAC	8x4.00	14.5	5.1
SSS1040HBSAC	10x4.00	16.7	5.1

CONTROL CABLE

FROR

Suitable for connection of movable equipment or for fixed laying in areas with risk of fire.
To be used in dry or wet interiors and for occasional or temporary use outdoor. Not allowed for laying underground even if protected.

CONSTRUCTION

Formation:
Plain annealed copper wire, Multistrand
Insulation:
Polyvinyl chloride - PVC
Outher Sheath:
Polyvinyl chloride - PVC
Colour Outher Sheath:
Grey RAL 7032

STANDARD REFERENCES

- *EN 50414*
- *CEI EN 60332-1-2*
- *CEI 20-22 II*
- *CEI EN 50267-2*

IDENTIFICATION OF CORES

In according to HD 308

CPR CLASSIFICATION

EN 50575:2016 - E_{CA}

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

CABLE PRINTING

RAMCRO - FROR 2x0.14 mm2 - 450/750V - VDE 0812 - IEC 60332-3 - EN 50575: 2014+A1:2016 CPR Class Eca + BATCH + METER MARKING

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 25 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 150 nF/km

Inductance:
< 1 mH/km

Operating Voltage:
From 0,14 mm2 to 0,75 mm2: 300/500 V
From 1,00 mm2 to 4,00 mm2: 450/750 V

CHARACTERISTICS

Min. Bending Radius
8 x cable diameter

Control Cable

Italian Market

PACKAGE:



ON REQUEST

Personalized colour code and outher sheath

CONTROL CABLE

FROR

From 0,14 mm² to 4,00 mm²

RAMCRO CODE	FORMATION [n° x mm²]	OUTER DIAMETER [mm]	MAX RESISTANCE AT 20°C [Ohm/km]
SSS0214HAAAL	2x0.14	3.3	154.0
SSS0414HAAAG	4x0.14	3.6	154.0
SSS0814HAAAD	6x0.14	4.5	154.0
SSS1014HAAAD	10x0.14	5.3	154.0
SSS0226HAAAL	2x0.25	3.8	83.1
SSS0426HAAAG	4x0.25	4.1	83.1
SSS0826HAAAD	6x0.25	5.4	83.1
SSS1026HAAAD	10x0.25	6.4	83.1
SSS0234HAAAL	2x0.34	3.9	57.2
SSS0434HAAAG	4x0.34	4.3	57.2
SSS0834HAAAD	6x0.34	5.7	57.2
SSS1034HAAAD	10x0.34	6.6	57.2
SSS0250HAAAL	2x0.50	4.5	40.6
SSS0450HAAAG	4x0.50	5.0	40.6
SSS0850HAAAD	6x0.50	6.9	40.6
SSS1050HAAAD	10x0.50	7.8	40.6
SSS0275HAAAL	2x0.75	4.9	27.1
SSS0475HAAAG	4x0.75	5.6	27.1
SSS0875HAAAD	6x0.75	7.5	27.1
SSS1075HAAAD	10x0.75	9.0	27.1
SSS0210HAAAL	2x1.00	5.5	20.3
SSS0410HAAAG	4x1.00	6.3	20.3
SSS0810HAAAD	6x1.00	8.6	20.3
SSS1010HAAAD	10x1.00	9.8	20.3
SSS0215HAAAL	2x1.50	6.5	13.8
SSS0415HAAAG	4x1.50	7.2	13.8
SSS0815HAAAD	6x1.50	9.8	13.8
SSS1015HAAAD	10x1.50	11.6	13.8
SSS0225HAAAL	2x2.50	7.7	8.3
SSS0425HAAAG	4x2.50	9.0	8.3
SSS0825HAAAD	6x2.50	12.5	8.3
SSS1025HAAAD	10x2.50	14.4	8.3
SSS0240HAAAL	2x4.00	9.4	5.1
SSS0440HAAAG	4x4.00	10.8	5.1
SSS0840HAAAD	6x4.00	14.5	5.1
SSS1040HAAAD	10x4.00	16.7	5.1

CONTROL CABLE

FROR16

Suitable for connection of movable equipment or for fixed laying in areas with risk of fire.
To be used in dry or wet interiors and for occasional or temporary use outdoor. Not allowed for laying underground even if protected.

CONSTRUCTION

Formation:
Plain annealed copper wire, Multistrand
Insulation:
Polyvinyl chloride - PVC
Outher Sheath:
Polyvinyl chloride Flame Retardant - PVC FR
Colour Outher Sheath:
Grey RAL 7032

STANDARD REFERENCES

- *EN 50414*
- *CEI EN 60332-1-2*
- *CEI 20-22 II*
- *CEI EN 50267-2*

IDENTIFICATION OF CORES

In according to HD 308

CPR CLASSIFICATION

EN 50575:2016 - C_{CA} s2, d0, a3

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

CABLE PRINTING

RAMCRO - FROR16 2x0.14 mm2 - 450/750V - VDE 0812 - IEC 60332-3 - EN 50575: 2014+A1:2016 CPR Class Cca + BATCH + METER MARKING

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 25 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 150 nF/km

Inductance:
< 1 mH/km

Operating Voltage:
From 0,14 mm2 to 0,75 mm2: 300/500 V
From 1,00 mm2 to 4,00 mm2: 450/750 V

CHARACTERISTICS

Min. Bending Radius
8 x cable diameter

Control Cable

Italian Market

PACKAGE:



ON REQUEST

Personalized colour code and outher sheath

CONTROL CABLE

FROR16

From 0,14 mm² to 4,00 mm²

RAMCRO CODE	FORMATION [n° x mm²]	OUTER DIAMETER [mm]	MAX RESISTANCE AT 20°C [Ohm/km]
SSS0214HASAL-CPRC	2x0.14	3.3	154.0
SSS0414HASAG-CPRC	4x0.14	3.6	154.0
SSS0814HASAD-CPRC	6x0.14	4.5	154.0
SSS1014HASAD-CPRC	10x0.14	5.3	154.0
SSS0226HASAL-CPRC	2x0.25	3.8	83.1
SSS0426HASAG-CPRC	4x0.25	4.1	83.1
SSS0826HASAD-CPRC	6x0.25	5.4	83.1
SSS1026HASAD-CPRC	10x0.25	6.4	83.1
SSS0234HASAL-CPRC	2x0.34	3.9	57.2
SSS0434HASAG-CPRC	4x0.34	4.3	57.2
SSS0834HASAD-CPRC	6x0.34	5.7	57.2
SSS1034HASAD-CPRC	10x0.34	6.6	57.2
SSS0250HASAL-CPRC	2x0.50	4.5	40.6
SSS0450HASAG-CPRC	4x0.50	5.0	40.6
SSS0850HASAD-CPRC	6x0.50	6.9	40.6
SSS1050HASAD-CPRC	10x0.50	7.8	40.6
SSS0275HASAL-CPRC	2x0.75	4.9	27.1
SSS0475HASAG-CPRC	4x0.75	5.6	27.1
SSS0875HASAD-CPRC	6x0.75	7.5	27.1
SSS1075HASAD-CPRC	10x0.75	9.0	27.1
SSS0210HASAL-CPRC	2x1.00	5.5	20.3
SSS0410HASAG-CPRC	4x1.00	6.3	20.3
SSS0810HASAD-CPRC	6x1.00	8.6	20.3
SSS1010HASAD-CPRC	10x1.00	9.8	20.3
SSS0215HASAL-CPRC	2x1.50	6.5	13.8
SSS0415HASAG-CPRC	4x1.50	7.2	13.8
SSS0815HASAD-CPRC	6x1.50	9.8	13.8
SSS1015HASAD-CPRC	10x1.50	11.6	13.8
SSS0225HASAL-CPRC	2x2.50	7.7	8.3
SSS0425HASAG-CPRC	4x2.50	9.0	8.3
SSS0825HASAD-CPRC	6x2.50	12.5	8.3
SSS1025HASAD-CPRC	10x2.50	14.4	8.3
SSS0240HASAL-CPRC	2x4.00	9.4	5.1
SSS0440HASAG-CPRC	4x4.00	10.8	5.1
SSS0840HASAD-CPRC	6x4.00	14.5	5.1
SSS1040HASAD-CPRC	10x4.00	16.7	5.1

CONTROL CABLE

FROR16

Suitable for connection of movable equipment or for fixed laying in areas with risk of fire.
To be used in dry or wet interiors and for occasional or temporary use outdoor. Not allowed for laying underground even if protected.

CONSTRUCTION

Formation:
Plain annealed copper wire, Multistrand
Insulation:
Polyvinyl chloride - PVC
Outher Sheath:
Polyvinyl chloride Flame Retardant - PVC FR
Colour Outher Sheath:
Grey RAL 7032

STANDARD REFERENCES

- *EN 50414*
- *CEI EN 60332-1-2*
- *CEI 20-22 II*
- *CEI EN 50267-2*

IDENTIFICATION OF CORES

In according to HD 308

CPR CLASSIFICATION

EN 50575:2016 - $B2_{CA}$ s2, d0, a3

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

CABLE PRINTING

RAMCRO - FROR16 2x0.14 mm2 - 450/750V - VDE 0812 - IEC 60332-3 - EN 50575: 2014+A1:2016 CPR Class B2ca + BATCH + METER MARKING

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 25 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 150 nF/km

Inductance:
< 1 mH/km

Operating Voltage:
From 0,14 mm2 to 0,75 mm2: 300/500 V
From 1,00 mm2 to 4,00 mm2: 450/750 V

CHARACTERISTICS

Min. Bending Radius
8 x cable diameter

Control Cable

Italian Market

PACKAGE:



ON REQUEST

Personalized colour code and outher sheath

CONTROL CABLE

FROR16

From 0,14 mm² to 4,00 mm²

RAMCRO CODE	FORMATION [n° x mm²]	OUTER DIAMETER [mm]	MAX RESISTANCE AT 20°C [Ohm/km]
SSS0214HASAL	2x0.14	3.3	154.0
SSS0414HASAG	4x0.14	3.6	154.0
SSS0814HASAD	6x0.14	4.5	154.0
SSS1014HASAD	10x0.14	5.3	154.0
SSS0226HASAL	2x0.25	3.8	83.1
SSS0426HASAG	4x0.25	4.1	83.1
SSS0826HASAD	6x0.25	5.4	83.1
SSS1026HASAD	10x0.25	6.4	83.1
SSS0234HASAL	2x0.34	3.9	57.2
SSS0434HASAG	4x0.34	4.3	57.2
SSS0834HASAD	6x0.34	5.7	57.2
SSS1034HASAD	10x0.34	6.6	57.2
SSS0250HASAL	2x0.50	4.5	40.6
SSS0450HASAG	4x0.50	5.0	40.6
SSS0850HASAD	6x0.50	6.9	40.6
SSS1050HASAD	10x0.50	7.8	40.6
SSS0275HASAL	2x0.75	4.9	27.1
SSS0475HASAG	4x0.75	5.6	27.1
SSS0875HASAD	6x0.75	7.5	27.1
SSS1075HASAD	10x0.75	9.0	27.1
SSS0210HASAL	2x1.00	5.5	20.3
SSS0410HASAG	4x1.00	6.3	20.3
SSS0810HASAD	6x1.00	8.6	20.3
SSS1010HASAD	10x1.00	9.8	20.3
SSS0215HASAL	2x1.50	6.5	13.8
SSS0415HASAG	4x1.50	7.2	13.8
SSS0815HASAD	6x1.50	9.8	13.8
SSS1015HASAD	10x1.50	11.6	13.8
SSS0225HASAL	2x2.50	7.7	8.3
SSS0425HASAG	4x2.50	9.0	8.3
SSS0825HASAD	6x2.50	12.5	8.3
SSS1025HASAD	10x2.50	14.4	8.3
SSS0240HASAL	2x4.00	9.4	5.1
SSS0440HASAG	4x4.00	10.8	5.1
SSS0840HASAD	6x4.00	14.5	5.1
SSS1040HASAD	10x4.00	16.7	5.1

CONTROL CABLE

LiYCY

These cables are used for power supply and control signal transmission in mechanical engineering for tooling machinery, for production lines and transport equipment, as well as in industrial installations. They meet the requirements of the EEC directive concerning electromagnetic compatibility (EMC), and ensure interference-free transmission providing protection against external pulses.

EN 50575:2016 CPR COMPLIANT

CONSTRUCTION

Formation:
Plain annealed copper wire, Multistrand
Insulation:
Polyvinyl chloride - PVC
Wrapping:
at least 1 layer of plastic tape 0,023 mm
Collective Screen:
Tinned Copper Wire Braid
Outher Sheath:
Polyvinyl chloride Flame Retardant - PVC FR
Colour Outher Sheath:
Grey RAL 7001

STANDARD REFERENCES

- VDE 0812
- IEC 60332-1
- IEC 60332-3-24

CPR CLASSIFICATION

EN 50575:2016 - $B2_{CA}$ s2, d0, a3*

***Avaiable also in EN 50575:2016 - C_{CA} s2, d0, a3**

IDENTIFICATION OF CORES

- In according to DIN VDE 47100
- **OZ:** Black Numbered
- **JZ:** Black Numbered + Green/Yellow

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

CABLE PRINTING

RAMCRO - LiYCY 2x0,14 mm2 - 300/500V - VDE 0812 - IEC 60332-3 - EN 50575: 2014+A1:2016 CPR Class B2ca + BATCH + METER MARKING

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 25 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 150 nF/km

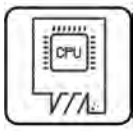
Inductance:
< 1 mH/km

Operating Voltage:
From 0,14 mm2 to 0,75 mm2: 300/500 V
From 1,00 mm2 to 4,00 mm2: 450/750 V

CHARACTERISTICS

Min. Bending Radius
8 x cable diameter

Control Cable



European Market

PACKAGE:

ON REQUEST

Personalized colour code and outher sheath

CONTROL CABLE

LiYCY

From 0,14 mm² to 4,00 mm²

RAMCRO CODE	FORMATION [n° x mm²]	OUTER DIAMETER [mm]	MAX RESISTANCE AT 20°C [Ohm/km]
STS0214HBAAC	2x0.14	3.7	154.0
STS0414HBAAC	4x0.14	4.0	154.0
STS0814HBAAC	6x0.14	4.5	154.0
STS1014HBAAC	10x0.14	5.7	154.0
STS0226HBAAC	2x0.25	4.2	83.1
STS0426HBAAC	4x0.25	4.5	83.1
STS0826HBAAC	6x0.25	5.4	83.1
STS1026HBAAC	10x0.25	6.8	83.1
STS0226HBAAC	2x0.34	4.3	57.2
STS0426HBAAC	4x0.34	4.7	57.2
STS0826HBAAC	6x0.34	5.6	57.2
STS1026HBAAC	10x0.34	7.0	57.2
STS0250HBAAC	2x0.50	4.9	40.6
STS0450HBAAC	4x0.50	5.6	40.6
STS0850HBAAC	6x0.50	6.7	40.6
STS1050HBAAC	10x0.50	8.6	40.6
STS0275HBAAC	2x0.75	5.5	27.1
STS0475HBAAC	4x0.75	6.0	27.1
STS0875HBAAC	6x0.75	7.3	27.1
STS1075HBAAC	10x0.75	9.4	27.1
STS0210HBAAC	2x1.00	5.9	20.3
STS0410HBAAC	4x1.00	6.7	20.3
STS0810HBAAC	6x1.00	7.9	20.3
STS1010HBAAC	10x1.00	10.6	20.3
STS0215HBAAC	2x1.50	6.9	13.8
STS0415HBAAC	4x1.50	7.6	13.8
STS0815HBAAC	6x1.50	9.3	13.8
STS1015HBAAC	10x1.50	12.0	13.8
STS0225HBAAC	2x2.50	6.9	8.3
STS0425HBAAC	4x2.50	9.4	8.3
STS0825HBAAC	6x2.50	11.5	8.3
STS1025HBAAC	10x2.50	14.8	8.3
STS0240HBAAC	2x4.00	9.8	5.1
STS0440HBAAC	4x4.00	11.2	5.1
STS0840HBAAC	6x4.00	13.7	5.1
STS1040HBAAC	10x4.00	17.1	5.1

CONTROL CABLE

FROHR2

Suitable for connection of movable equipment or for fixed laying in areas with risk of fire.
To be used in dry or wet interiors and for occasional or temporary use outdoor. Not allowed for laying underground even if protected.

CONSTRUCTION

Formation:
Plain annealed copper wire, Multistrand
Insulation:
Polyvinyl chloride - PVC
Wrapping:
at least 1 layer of plastic tape 0,023 mm
Collective Screen:
Tinned Copper Wire Braid
Outher Sheath:
Polyvinyl chloride - PVC
Colour Outher Sheath:
Grey RAL 7032

STANDARD REFERENCES

- EN 50414
- CEI EN 60332-1-2
- CEI 20-22 II
- CEI EN 50267-2

CPR CLASSIFICATION

EN 50575:2016 - E_{CA}

IDENTIFICATION OF CORES

In according to HD 308

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

CABLE PRINTING

RAMCRO - FR2OH2R 2x0,14 mm2 - 300/500V - VDE 0812 - IEC 60332-3 - EN 50575: 2014+A1:2016
CPR Class Eca + BATCH + METER MARKING

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 25 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 150 nF/km

Inductance:
< 1 mH/km

Operating Voltage:
From 0,14 mm2 to 0,75 mm2: 300/500 V
From 1,00 mm2 to 4,00 mm2: 450/750 V

CHARACTERISTICS

Min. Bending Radius
8 x cable diameter

Control Cable

Italian Market

PACKAGE:



ON REQUEST

Armour in steel wire braid -
Personalized colour code and outher sheath -

CONTROL CABLE

FROHR2

From 0,14 mm² to 4,00 mm²

RAMCRO CODE	FORMATION [n° x mm²]	OUTER DIAMETER [mm]	MAX RESISTANCE AT 20°C [Ohm/km]
FR60214HAAAL	2x0.14	3.7	154.0
FR60414HAAAG	4x0.14	4.0	154.0
FR60814HAAAD	6x0.14	4.5	154.0
FR61014HAAAD	10x0.14	5.7	154.0
FR60226HAAAL	2x0.25	4.2	83.1
FR60426HAAAG	4x0.25	4.5	83.1
FR60826HAAAD	6x0.25	5.4	83.1
FR61026HAAAD	10x0.25	6.8	83.1
FR60234HAAAL	2x0.34	4.3	57.2
FR60434HAAAG	4x0.34	4.7	57.2
FR60834HAAAD	6x0.34	5.6	57.2
FR61034HAAAD	10x0.34	7.0	57.2
FR60250HAAAL	2x0.50	4.9	40.6
FR60450HAAAG	4x0.50	5.6	40.6
FR60850HAAAD	6x0.50	6.7	40.6
FR61050HAAAD	10x0.50	8.6	40.6
FR60275HAAAL	2x0.75	5.5	27.1
FR60475HAAAG	4x0.75	6.0	27.1
FR60875HAAAD	6x0.75	7.3	27.1
FR61075HAAAD	6x0.75	9.4	27.1
FR60210HAAAL	2x1.00	5.9	20.3
FR60410HAAAG	4x1.00	6.7	20.3
FR60810HAAAD	6x1.00	7.9	20.3
FR61010HAAAD	10x1.00	10.6	20.3
FR60215HAAAL	2x1.50	6.9	13.8
FR60415HAAAG	4x1.50	7.6	13.8
FR60815HAAAD	6x1.50	9.3	13.8
FR61015HAAAD	10x1.50	12.0	13.8
FR60225HAAAL	2x2.50	6.9	8.3
FR60425HAAAG	4x2.50	9.4	8.3
FR60825HAAAD	6x2.50	11.5	8.3
FR61025HAAAD	10x2.50	14.8	8.3
FR60240HAAAL	2x4.00	9.8	5.1
FR60440HAAAG	4x4.00	11.2	5.1
FR60840HAAAD	6x4.00	13.7	5.1
FR61040HAAAD	10x4.00	17.1	5.1

CONTROL CABLE

FROH2R16

Suitable for connection of movable equipment or for fixed laying in areas with risk of fire.
To be used in dry or wet interiors and for occasional or temporary use outdoor. Not allowed for laying underground even if protected.

CONSTRUCTION

Formation:
Plain annealed copper wire, Multistrand
Insulation:
Polyvinyl chloride - PVC
Wrapping:
at least 1 layer of plastic tape 0,023 mm
Collective Screen:
Tinned Copper Wire Braid
Outher Sheath:
Polyvinyl chloride Flame Retardant - PVC FR
Colour Outher Sheath:
Grey RAL 7032

STANDARD REFERENCES

- EN 50414
- CEI EN 60332-1-2
- CEI 20-22 II
- CEI EN 50267-2

CPR CLASSIFICATION

EN 50575:2016 - C_{CA} s1, d0, a3

IDENTIFICATION OF CORES

In according to HD 308

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

CABLE PRINTING

RAMCRO - FROH2R16 2x0,14 mm2 - 300/500V - VDE 0812 - IEC 60332-3 - EN 50575: 2014+A1:2016 CPR Class Cca + BATCH + METER MARKING

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 25 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 150 nF/km

Inductance:
< 1 mH/km

Operating Voltage:
From 0,14 mm2 to 0,75 mm2: 300/500 V
From 1,00 mm2 to 4,00 mm2: 450/750 V

CHARACTERISTICS

Min. Bending Radius
8 x cable diameter

Control Cable

Italian Market

PACKAGE:



ON REQUEST

Armour in steel wire braid -
Personalized colour code and outher sheath -

CONTROL CABLE

FROH2R16

From 0,14 mm² to 4,00 mm²

RAMCRO CODE	FORMATION [n° x mm²]	OUTER DIAMETER [mm]	MAX RESISTANCE AT 20°C [Ohm/km]
FR60214HASAL-CPRC	2x0.14	3.7	154.0
FR60414HASAG-CPRC	4x0.14	4.0	154.0
FR60814HASAD-CPRC	6x0.14	4.5	154.0
FR61014HASAD-CPRC	10x0.14	5.7	154.0
FR60226HASAL-CPRC	2x0.25	4.2	83.1
FR60426HASAG-CPRC	4x0.25	4.5	83.1
FR60826HASAD-CPRC	6x0.25	5.4	83.1
FR61026HASAD-CPRC	10x0.25	6.8	83.1
FR60234HASAL-CPRC	2x0.34	4.3	57.2
FR60434HASAG-CPRC	4x0.34	4.7	57.2
FR60834HASAD-CPRC	6x0.34	5.6	57.2
FR61034HASAD-CPRC	10x0.34	7.0	57.2
FR60250HASAL-CPRC	2x0.50	4.9	40.6
FR60450HASAG-CPRC	4x0.50	5.6	40.6
FR60850HASAD-CPRC	6x0.50	6.7	40.6
FR61050HASAD-CPRC	10x0.50	8.6	40.6
FR60275HASAL-CPRC	2x0.75	5.5	27.1
FR60475HASAG-CPRC	4x0.75	6.0	27.1
FR60875HASAD-CPRC	6x0.75	7.3	27.1
FR61075HASAD-CPRC	10x0.75	9.4	27.1
FR60210HASAL-CPRC	2x1.00	5.9	20.3
FR60410HASAG-CPRC	4x1.00	6.7	20.3
FR60810HASAD-CPRC	6x1.00	7.9	20.3
FR61010HASAD-CPRC	10x1.00	10.6	20.3
FR60215HASAL-CPRC	2x1.50	6.9	13.8
FR60415HASAG-CPRC	4x1.50	7.6	13.8
FR60815HASAD-CPRC	6x1.50	9.3	13.8
FR61015HASAD-CPRC	10x1.50	12.0	13.8
FR60225HASAL-CPRC	2x2.50	6.9	8.3
FR60425HASAG-CPRC	4x2.50	9.4	8.3
FR60825HASAD-CPRC	6x2.50	11.5	8.3
FR61025HASAD-CPRC	10x2.50	14.8	8.3
FR60240HASAL-CPRC	2x4.00	9.8	5.1
FR60440HASAG-CPRC	4x4.00	11.2	5.1
FR60840HASAD-CPRC	6x4.00	13.7	5.1
FR61040HASAD-CPRC	10x4.00	17.1	5.1

CONTROL CABLE

FROH2R16

Suitable for connection of movable equipment or for fixed laying in areas with risk of fire.
To be used in dry or wet interiors and for occasional or temporary use outdoor. Not allowed for laying underground even if protected.

CONSTRUCTION

Formation:
Plain annealed copper wire, Multistrand
Insulation:
Polyvinyl chloride - PVC
Wrapping:
at least 1 layer of plastic tape 0,023 mm
Collective Screen:
Tinned Copper Wire Braid
Outher Sheath:
Polyvinyl chloride Flame Retardant - PVC FR
Colour Outher Sheath:
Grey RAL 7032

STANDARD REFERENCES

- EN 50414
- CEI EN 60332-1-2
- CEI 20-22 II
- CEI EN 50267-2

CPR CLASSIFICATION

EN 50575:2016 - $B2_{CA}$ s1, d0, a3

IDENTIFICATION OF CORES

In according to HD 308

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

CABLE PRINTING

RAMCRO - FROH2R16 2x0,14 mm2 - 300/500V - VDE 0812 - IEC 60332-3 - EN 50575: 2014+A1:2016 CPR Class B2ca + BATCH + METER MARKING

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 25 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 150 nF/km

Inductance:
< 1 mH/km

Operating Voltage:
From 0,14 mm2 to 0,75 mm2: 300/500 V
From 1,00 mm2 to 4,00 mm2: 450/750 V

CHARACTERISTICS

Min. Bending Radius
8 x cable diameter

Control Cable

Italian Market

PACKAGE:

ON REQUEST

Armour in steel wire braid -
Personalized colour code and outher sheath -

CONTROL CABLE

FROH2R16

From 0,14 mm² to 4,00 mm²

RAMCRO CODE	FORMATION [n° x mm²]	OUTER DIAMETER [mm]	MAX RESISTANCE AT 20°C [Ohm/km]
FR60214HASAL	2x0.14	3.7	154.0
FR60414HASAG	4x0.14	4.0	154.0
FR60814HASAD	6x0.14	4.5	154.0
FR61014HASAD	10x0.14	5.7	154.0
FR60226HASAL	2x0.25	4.2	83.1
FR60426HASAG	4x0.25	4.5	83.1
FR60826HASAD	6x0.25	5.4	83.1
FR61026HASAD	10x0.25	6.8	83.1
FR60234HASAL	2x0.34	4.3	57.2
FR60434HASAG	4x0.34	4.7	57.2
FR60834HASAD	6x0.34	5.6	57.2
FR61034HASAD	10x0.34	7.0	57.2
FR60250HASAL	2x0.50	4.9	40.6
FR60450HASAG	4x0.50	5.6	40.6
FR60850HASAD	6x0.50	6.7	40.6
FR61050HASAD	10x0.50	8.6	40.6
FR60275HASAL	2x0.75	5.5	27.1
FR60475HASAG	4x0.75	6.0	27.1
FR60875HASAD	6x0.75	7.3	27.1
FR61075HASAD	10x0.75	9.4	27.1
FR60210HASAL	2x1.00	5.9	20.3
FR60410HASAG	4x1.00	6.7	20.3
FR60810HASAD	6x1.00	7.9	20.3
FR61010HASAD	10x1.00	10.6	20.3
FR60215HASAL	2x1.50	6.9	13.8
FR60415HASAG	4x1.50	7.6	13.8
FR60815HASAD	6x1.50	9.3	13.8
FR61015HASAD	10x1.50	12.0	13.8
FR60225HASAL	2x2.50	6.9	8.3
FR60425HASAG	4x2.50	9.4	8.3
FR60825HASAD	6x2.50	11.5	8.3
FR61025HASAD	10x2.50	14.8	8.3
FR60240HASAL	2x4.00	9.8	5.1
FR60440HASAG	4x4.00	11.2	5.1
FR60840HASAD	6x4.00	13.7	5.1
FR61040HASAD	10x4.00	17.1	5.1

CONTROL CABLE

FROHH2R

Suitable for connection of movable equipment or for fixed laying in areas with risk of fire.
To be used in dry or wet interiors and for occasional or temporary use outdoor. Not allowed for laying underground even if protected.

CONSTRUCTION

Formation:
Plain annealed copper wire, Multistrand
Insulation:
Polyvinyl chloride - PVC
Wrapping:
at least 1 layer of plastic tape 0,023 mm
Collective Screen:
Aluminium / PETP + Tinned Copper Braid
Outher Sheath:
Polyvinyl chloride - PVC
Colour Outher Sheath:
Grey RAL 7032

STANDARD REFERENCES

- EN 50414
- CEI EN 60332-1-2
- CEI 20-22 II
- CEI EN 50267-2

CPR CLASSIFICATION

EN 50575:2016 - E_{CA} s1, d0, a3

IDENTIFICATION OF CORES

In according to HD 308

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

CABLE PRINTING

RAMCRO - FR2OHH2R 2x0,14 mm2 - 300/500V - VDE 0812 - IEC 60332-3 - EN 50575: 2014+A1:2016
CPR Class B2ca + BATCH + METER MARKING

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 25 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 150 nF/km

Inductance:
< 1 mH/km

Operating Voltage:
From 0,14 mm2 to 0,75 mm2: 300/500 V
From 1,00 mm2 to 6,00 mm2: 450/750 V

CHARACTERISTICS

Min. Bending Radius
8 x cable diameter

Control Cable

Italian Market

PACKAGE:



ON REQUEST

Armour in steel wire braid -
Personalized colour code and outher sheath -

CONTROL CABLE

FROHH2R

From 0,50 mm² to 6,00 mm²

RAMCRO CODE	FORMATION [n° x mm²]	OUTER DIAMETER [mm]	MAX RESISTANCE AT 20°C [Ohm/km]
SMS0250HAAAL	2x0.50	5.0	40.6
SMS0350HAAAG	3x0.50	5.5	40.6
SMS0450HAAAF	4x0.50	5.9	40.6
SMS0550HAAAT	5x0.50	6.5	40.6
SMS0650HAAAD	6x0.50	7.0	40.6
SMS0275HAAAL	2x0.75	5.6	27.1
SMS0375HAAAG	3x0.75	5.9	27.1
SMS0475HAAAF	4x0.75	6.6	27.1
SMS0575HAAAT	5x0.75	7.1	27.1
SMS0675HAAAD	6x0.75	7.6	27.1
SMS0210HAAAL	2x1.00	6.0	20.3
SMS0310HAAAG	3x1.00	6.5	20.3
SMS0410HAAAF	4x1.00	7.0	20.3
SMS0510HAAAT	5x1.00	7.6	20.3
SMS0610HAAAD	6x1.00	8.6	20.3
SMS0215HAAAL	2x1.50	7.0	13.8
SMS0315HAAAG	3x1.50	7.3	13.8
SMS0415HAAAF	4x1.50	8.0	13.8
SMS0515HAAAT	5x1.50	9.0	13.8
SMS0615HAAAD	6x1.50	9.8	13.8
SMS0250HAAAL	2x2.50	8.6	8.3
SMS0350HAAAG	3x2.50	9.1	8.3
SMS0450HAAAF	4x2.50	9.9	8.3
SMS0550HAAAT	5x2.50	11.1	8.3
SMS0650HAAAD	6x2.50	12.0	8.3
SMS0250HAAAL	2x4.00	9.9	5.1
SMS0350HAAAG	3x4.00	10.8	5.1
SMS0450HAAAF	4x4.00	11.8	5.1
SMS0550HAAAT	5x4.00	13.2	5.1
SMS0650HAAAD	6x4.00	14.3	5.1
SMS0250HAAAL	2x6.00	11,8	3.4
SMS0350HAAAG	3x6.00	12.9	3.4
SMS0450HAAAF	4x6.00	14.0	3.4
SMS0550HAAAT	5x6.00	15.3	3.4
SMS0650HAAAD	6x6.00	16.6	3.4

CONTROL CABLE

FROHH2R16

Suitable for connection of movable equipment or for fixed laying in areas with risk of fire.
To be used in dry or wet interiors and for occasional or temporary use outdoor. Not allowed for laying underground even if protected.

CONSTRUCTION

Formation:
Plain annealed copper wire, Multistrand
Insulation:
Polyvinyl chloride - PVC
Wrapping:
at least 1 layer of plastic tape 0,023 mm
Collective Screen:
Aluminium / PETP + Tinned Copper Braid
Outher Sheath:
Polyvinyl chloride Flame Retardant - PVC FR
Colour Outher Sheath:
Grey RAL 7032

STANDARD REFERENCES

- EN 50414
- CEI EN 60332-1-2
- CEI 20-22 II
- CEI EN 50267-2

CPR CLASSIFICATION

EN 50575:2016 - C_{CA} s1, d0, a3

IDENTIFICATION OF CORES

In according to HD 308

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

CABLE PRINTING

RAMCRO - FROHH2R16 2x0,14 mm2 - 300/500V - VDE 0812 - IEC 60332-3 - EN 50575: 2014+A1:2016 CPR Class B2ca + BATCH + METER MARKING

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 25 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 150 nF/km

Inductance:
< 1 mH/km

Operating Voltage:
From 0,14 mm2 to 0,75 mm2: 300/500 V
From 1,00 mm2 to 6,00 mm2: 450/750 V

CHARACTERISTICS

Min. Bending Radius
8 x cable diameter

Control Cable

Italian Market

PACKAGE:



ON REQUEST

Armour in steel wire braid -
Personalized colour code and outher sheath -

CONTROL CABLE

FROHH2R16

From 0,50 mm² to 6,00 mm²

RAMCRO CODE	FORMATION [n° x mm²]	OUTER DIAMETER [mm]	MAX RESISTANCE AT 20°C [Ohm/km]
SMS0250HASAL-CPRC	2x0.50	5.0	40.6
SMS0350HASAG-CPRC	3x0.50	5.5	40.6
SMS0450HASAF-CPRC	4x0.50	5.9	40.6
SMS0550HASAT-CPRC	5x0.50	6.5	40.6
SMS0650HASAD-CPRC	6x0.50	7.0	40.6
SMS0250HASAL-CPRC	2x0.75	5.6	27.1
SMS0350HASAG-CPRC	3x0.75	5.9	27.1
SMS0450HASAF-CPRC	4x0.75	6.6	27.1
SMS0550HASAT-CPRC	5x0.75	7.1	27.1
SMS0650HASAD-CPRC	6x0.75	7.6	27.1
SMS0250HASAL-CPRC	2x1.00	6.0	20.3
SMS0350HASAG-CPRC	3x1.00	6.5	20.3
SMS0450HASAF-CPRC	4x1.00	7.0	20.3
SMS0550HASAT-CPRC	5x1.00	7.6	20.3
SMS0650HASAD-CPRC	6x1.00	8.6	20.3
SMS0250HASAL-CPRC	2x1.50	7.0	13.8
SMS0350HASAG-CPRC	3x1.50	7.3	13.8
SMS0450HASAF-CPRC	4x1.50	8.0	13.8
SMS0550HASAT-CPRC	5x1.50	9.0	13.8
SMS0650HASAD-CPRC	6x1.50	9.8	13.8
SMS0250HASAL-CPRC	2x2.50	8.6	8.3
SMS0350HASAG-CPRC	3x2.50	9.1	8.3
SMS0450HASAF-CPRC	4x2.50	9.9	8.3
SMS0550HASAT-CPRC	5x2.50	11.1	8.3
SMS0650HASAD-CPRC	6x2.50	12.0	8.3
SMS0250HASAL-CPRC	2x4.00	9.9	5.1
SMS0350HASAG-CPRC	3x4.00	10.8	5.1
SMS0450HASAF-CPRC	4x4.00	11.8	5.1
SMS0550HASAT-CPRC	5x4.00	13.2	5.1
SMS0650HASAD-CPRC	6x4.00	14.3	5.1
SMS0250HASAL-CPRC	2x6.00	11,8	3.4
SMS0350HASAG-CPRC	3x6.00	12.9	3.4
SMS0450HASAF-CPRC	4x6.00	14.0	3.4
SMS0550HASAT-CPRC	5x6.00	15.3	3.4
SMS0650HASAD-CPRC	6x6.00	16.6	3.4

CONTROL CABLE

FROHH2R16

Suitable for connection of movable equipment or for fixed laying in areas with risk of fire.
To be used in dry or wet interiors and for occasional or temporary use outdoor. Not allowed for laying underground even if protected.

CONSTRUCTION

Formation:
Plain annealed copper wire, Multistrand
Insulation:
Polyvinyl chloride - PVC
Wrapping:
at least 1 layer of plastic tape 0,023 mm
Collective Screen:
Aluminium / PETP + Tinned Copper Braid
Outher Sheath:
Polyvinyl chloride Flame Retardant - PVC FR
Colour Outher Sheath:
Grey RAL 7032

STANDARD REFERENCES

- EN 50414
- CEI EN 60332-1-2
- CEI 20-22 II
- CEI EN 50267-2

CPR CLASSIFICATION

EN 50575:2016 - $B2_{CA}$ s1, d0, a3

IDENTIFICATION OF CORES

In according to HD 308

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

CABLE PRINTING

RAMCRO - FROHH2R16 2x0,14 mm2 - 300/500V - VDE 0812 - IEC 60332-3 - EN 50575: 2014+A1:2016 CPR Class B2ca + BATCH + METER MARKING

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 25 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 150 nF/km

Inductance:
< 1 mH/km

Operating Voltage:
From 0,14 mm2 to 0,75 mm2: 300/500 V
From 1,00 mm2 to 6,00 mm2: 450/750 V

CHARACTERISTICS

Min. Bending Radius
8 x cable diameter

Control Cable

Italian Market

PACKAGE:



ON REQUEST

Armour in steel wire braid -
Personalized colour code and outher sheath -

CONTROL CABLE

FROHH2R16

From 0,50 mm² to 6,00 mm²

RAMCRO CODE	FORMATION [n° x mm²]	OUTER DIAMETER [mm]	MAX RESISTANCE AT 20°C [Ohm/km]
SMS0250HASAL	2x0.50	5.0	40.6
SMS0350HASAG	3x0.50	5.5	40.6
SMS0450HASAF	4x0.50	5.9	40.6
SMS0550HASAT	5x0.50	6.5	40.6
SMS0650HASAD	6x0.50	7.0	40.6
SMS0250HASAL	2x0.75	5.6	27.1
SMS0350HASAG	3x0.75	5.9	27.1
SMS0450HASAF	4x0.75	6.6	27.1
SMS0550HASAT	5x0.75	7.1	27.1
SMS0650HASAD	6x0.75	7.6	27.1
SMS0250HASAL	2x1.00	6.0	20.3
SMS0350HASAG	3x1.00	6.5	20.3
SMS0450HASAF	4x1.00	7.0	20.3
SMS0550HASAT	5x1.00	7.6	20.3
SMS0650HASAD	6x1.00	8.6	20.3
SMS0250HASAL	2x1.50	7.0	13.8
SMS0350HASAG	3x1.50	7.3	13.8
SMS0450HASAF	4x1.50	8.0	13.8
SMS0550HASAT	5x1.50	9.0	13.8
SMS0650HASAD	6x1.50	9.8	13.8
SMS0250HASAL	2x2.50	8.6	8.3
SMS0350HASAG	3x2.50	9.1	8.3
SMS0450HASAF	4x2.50	9.9	8.3
SMS0550HASAT	5x2.50	11.1	8.3
SMS0650HASAD	6x2.50	12.0	8.3
SMS0250HASAL	2x4.00	9.9	5.1
SMS0350HASAG	3x4.00	10.8	5.1
SMS0450HASAF	4x4.00	11.8	5.1
SMS0550HASAT	5x4.00	13.2	5.1
SMS0650HASAD	6x4.00	14.3	5.1
SMS0250HASAL	2x6.00	11,8	3.4
SMS0350HASAG	3x6.00	12.9	3.4
SMS0450HASAF	4x6.00	14.0	3.4
SMS0550HASAT	5x6.00	15.3	3.4
SMS0650HASAD	6x6.00	16.6	3.4

COAX CABLE

RG 58 C/U 50 Ω

Transmission of dat signals in applications such as antenna feed cables or Ethernet backbones

CONSTRUCTION

Conductor:
Tinned copper wire, multistrand
Dieletric:
Low density polyetilene - LDPE
Braid:
Tinned copper wire braid - Coverage: 90%
Outher Sheath:
Polyvinyl chloride - PVC
Colour Outher Sheath:
Black

STANDARD REFERENCES

- IEC 60332-1

ON REQUEST

- Armor in steel wire (SWA)
- Armor in steel wire braid (SWB)
- Outher Sheath in LSZH
- Double outher sheath (for external use)

CPR CLASSIFICATION

EN 50575:2016 - E_{CA}

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 5000 MOhm*Km

Impedance:
50 Ohm

Capacitance:
100 pF/m

Velocity of Propagation:
66%

Operating Voltage:
300 V

CHARACTERISTICS

Coaxial Cable

Min. Bending Radius
8 x cable diameter

Fixed Laying

PACKAGE:

WARNING

These cables can be installed along with power cables marked 450/750 V or 0,6/1 kV operating with systems having maximum voltage to ground 400 V AC

COAX CABLE

RG 58 C/U 50 Ω

Standard Version

RAMCRO CODE	OUTER DIAMETER [mm]	WEIGHT [kg/km]
RG 58	4.9	38

FREQUENCY [MHz]	ATTENUATION [dB/100m]
50	12.6
100	18.1
200	26.5
400	32.5
800	53.4
1000	65.2

ELECTRICAL RESISTANCE AT 20°C	[Ω/km]
CONDUCTOR RESISTANCE	41.2

COAX CABLE

RG 174 U 50 Ω

Transmission of data signals in applications such as LAN/WAN or GPS

CONSTRUCTION

Conductor:
Bare copper wire
Dieletric:
Low density polyetilene - LDPE
Braid:
Tinned copper wire braid - Coverage: 90%
Outher Sheath:
Polyvinyl chloride - PVC
Colour Outher Sheath:
Black

STANDARD REFERENCES

- IEC 60332-1

ON REQUEST

- Armor in steel wire (SWA)
- Armor in steel wire braid (SWB)
- Outher Sheath in LSZH
- Double outher sheath (for external use)

CPR CLASSIFICATION

EN 50575:2016 - E_{CA}

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 5000 MOhm*Km

Impedance:
50 Ohm

Capacitance:
101 pF/m

Velocity of Propagation:
66%

Operating Voltage:
300 V

CHARACTERISTICS

Coaxial Cable

Min. Bending Radius
8 x cable diameter

Fixed Laying

PACKAGE:



WARNING

These cables can be installed along with power cables marked 450/750 V or 0,6/1 kV operating with systems having maximum voltage to ground 400 V AC

COAX CABLE

RG 174 U 50 Ω

Standard Version

RAMCRO CODE	OUTER DIAMETER [mm]	WEIGHT [kg/km]
RG 174	2.8	15

FREQUENCY [MHz]	ATTENUATION [dB/100m]
50	20.0
100	25.8
200	42.5
400	54.9
800	82.9
1000	97.0

ELECTRICAL RESISTANCE AT 20°C	[Ω/km]
CONDUCTOR RESISTANCE	290.0

COAX CABLE

RG 213 U 50 Ω

Transmission of data signals in applications such as antenna feed cables in situations where low signal loss and high operating voltage performance is needed

CONSTRUCTION

Formation:
Bare copper wire, 7 strand
Insulation:
Low density polyetilene - LDPE
Braid:
Bare copper wire braid - Coverage: 90%
Outher Sheath:
Polyvinyl chloride - PVC
Colour Outher Sheath:
Black

STANDARD REFERENCES

- IEC 60332-1

ON REQUEST

- **Armor in steel wire (SWA)**
- **Armor in steel wire braid (SWB)**
- **Outher Sheath in LSZH**
- **Double outher sheath (for external use)**

CPR CLASSIFICATION

EN 50575:2016 - E_{CA}

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 5000 MOhm*Km

Impedance:
50 Ohm

Capacitance:
100 pF/m

Velocity of Propagation:
66%

Operating Voltage:
300 V

CHARACTERISTICS

Coaxial Cable

Min. Bending Radius
8 x cable diameter

Fixed Laying

PACKAGE:



WARNING

These cables can be installed along with power cables marked 450/750 V or 0,6/1 kV operating with systems having maximum voltage to ground 400 V AC

COAX CABLE

RG 174 U 50 Ω

Standard Version

RAMCRO CODE	OUTER DIAMETER [mm]	WEIGHT [kg/km]
RG 213	10.3	151

FREQUENCY [MHz]	ATTENUATION [dB/100m]
50	4.9
100	6.9
200	9,9
400	13.7
800	20.4
1000	24.9

ELECTRICAL RESISTANCE AT 20°C	[Ω/km]
CONDUCTOR RESISTANCE	5.8

COAX CABLE

RG 214 U 50 Ω

Standard Version

CONSTRUCTION

Formation:
Tinned Copper Wire, 7 Strand
Insulation:
Low density polyetilene - LDPE
1° Braid:
Bare copper wire braid - Coverage: 96%
2° Braid:
Bare copper wire braid - Coverage: 98%
Outher Sheath:
Polyvinyl chloride - PVC
Colour Outher Sheath:
Black

STANDARD REFERENCES

- IEC 60332-1

ON REQUEST

- **Armor in steel wire (SWA)**
- **Armor in steel wire braid (SWB)**
- **Outher Sheath in LSZH**
- **Double outher sheath (for external use)**

CPR CLASSIFICATION

EN 50575:2016 - E_{CA}

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 5000 MOhm*Km

Impedance:
50 Ohm

Capacitance:
100 pF/m

Velocity of Propagation:
66%

Operating Voltage:
300 V

CHARACTERISTICS

Coaxial Cable

Min. Bending Radius
8 x cable diameter

Fixed Laying

PACKAGE:

WARNING

These cables can be installed along with power cables marked 450/750 V or 0,6/1 kV operating with systems having maximum voltage to ground 400 V AC

COAX CABLE

RG 214 U 50 Ω

Standard Version

RAMCRO CODE	OUTER DIAMETER [mm]	WEIGHT [kg/km]
RG 213	10.8	209

FREQUENCY [MHz]	ATTENUATION [dB/100m]
50	4.5
100	6.7
200	9.9
400	14.3
800	22.5
1000	26.0

ELECTRICAL RESISTANCE AT 20°C	[Ω/km]
CONDUCTOR RESISTANCE	6.0

COAX CABLE

RG 59 B/U 75 Ω

Transmission of a video or audio signal in applications such as security systems or CATV

CONSTRUCTION

Formation:
Plain annealed copper wire, solid
Insulation:
Polyetilene - PE
Braid:
Coverage: 88%
Outher Sheath:
Polyvinyl chloride - PVC
Colour Outher Sheath:
Black

STANDARD REFERENCES

- IEC 60332-1

ON REQUEST

- Armor in steel wire (SWA)
- Armor in steel wire braid (SWB)
- Outher Sheath in LSZH
- Double outher sheath (for external use)

CPR CLASSIFICATION

EN 50575:2016 - E_{CA}

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 5000 MOhm*Km

Impedance:
75 Ohm

Capacitance:
66 pF/m

Velocity of Propagation:
66%

Operating Voltage:
300 V

CHARACTERISTICS

Coaxial Cable

Min. Bending Radius
8 x cable diameter

Fixed Laying

PACKAGE:



WARNING

These cables can be installed along with power cables marked 450/750 V or 0,6/1 kV operating with systems having maximum voltage to ground 400 V AC

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COAX CABLE

RG 59 B/U 75 Ω

Standard Version

RAMCRO CODE	OUTER DIAMETER [mm]	WEIGHT [kg/km]
RG 59	6.1	55

FREQUENCY [MHz]	ATTENUATION [dB/100m]
50	8.8
100	12.2
200	18.1
450	29.0
800	37.8
860	43.3
1000	46.6

ELECTRICAL RESISTANCE AT 20°C	[Ω/km]
CONDUCTOR RESISTANCE	66.0

COAX CABLE

RG 59 B/U 75 Ω -MICRO COAX-

Transmission of a video or audio signal in applications such as security systems or CATV

CONSTRUCTION

Formation:
Copper clad steel - CCS
Insulation:
Low density polyetilene - LDPE
1° Braid:
Bare copper wire braid - Coverage: 90%
Outher Sheath:
Polyvinyl chloride - PVC
Colour Outher Sheath:
Black

STANDARD REFERENCES

- IEC 60332-1

ON REQUEST

- **Armor in steel wire (SWA)**
- **Armor in steel wire braid (SWB)**
- **Outher Sheath in LSZH**
- **Double outher sheath (for external use)**

CPR CLASSIFICATION

EN 50575:2016 - E_{CA}

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 5000 MOhm*Km

Impedance:
50 Ohm

Capacitance:
100 pF/m

Velocity of Propagation:
66%

Operating Voltage:
300 V

CHARACTERISTICS

Coaxial Cable

Min. Bending Radius
8 x cable diameter

Fixed Laying

PACKAGE:

WARNING

These cables can be installed along with power cables marked 450/750 V or 0,6/1 kV operating with systems having maximum voltage to ground 400 V AC

COAX CABLE

RG 59 B/U 75 Ω -MICRO COAX-

Standard Version

RAMCRO CODE	OUTER DIAMETER [mm]	WEIGHT [kg/km]
RG59MINI-GI-D3	3.6	55

FREQUENCY [MHz]	ATTENUATION [dB/100m]
50	7.7
100	11.2
200	16.0
400	24.1
800	34.0
1000	38.7

ELECTRICAL RESISTANCE AT 20°C	[Ω/km]
CONDUCTOR RESISTANCE	148

COAX CABLE

RG 11 B/U 75 Ω

Standard Version

CONSTRUCTION

Formation:
Tinned copper wire, 7 strand
Insulation:
Low density polyetilene - LDPE
Braid:
Bare copper wire braid - Coverage: 90%
Outher Sheath:
Polyvinyl chloride - PVC
Colour Outher Sheath:
Black

STANDARD REFERENCES

- IEC 60332-1

ON REQUEST

- **Armor in steel wire (SWA)**
- **Armor in steel wire braid (SWB)**
- **Outher Sheath in LSZH**
- **Double outher sheath (for external use)**

CPR CLASSIFICATION

EN 50575:2016 - E_{CA}

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 5000 MOhm*Km

Impedance:
50 Ohm

Capacitance:
100 pF/m

Velocity of Propagation:
66%

Operating Voltage:
300 V

CHARACTERISTICS

Coaxial Cable

Min. Bending Radius
8 x cable diameter

Fixed Laying

PACKAGE:



WARNING

These cables can be installed along with power cables marked 450/750 V or 0,6/1 kV operating with systems having maximum voltage to ground 400 V AC

COAX CABLE

RG 59 B/U 75 Ω

Standard Version

RAMCRO CODE	OUTER DIAMETER [mm]	WEIGHT [kg/km]
RG 213	10.3	103

FREQUENCY [MHz]	ATTENUATION [dB/100m]
50	4.5
100	6.5
200	9.5
400	14.1
800	21.9
1000	23.7

ELECTRICAL RESISTANCE AT 20°C	[Ω/km]
CONDUCTOR RESISTANCE	25.5

COAX CABLE

RG 62 B/U 93 Ω

Standard Version

CONSTRUCTION

Formation:
Bare copper wire
Insulation:
Low density polyetilene - LDPE
Braid:
Bare copper wire braid - Coverage: 95%
Outher Sheath:
Polyvinyl chloride - PVC
Colour Outher Sheath:
Black

STANDARD REFERENCES

- IEC 60332-1

ON REQUEST

- **Armor in steel wire (SWA)**
- **Armor in steel wire braid (SWB)**
- **Outher Sheath in LSZH**
- **Double outher sheath (for external use)**

CPR CLASSIFICATION

EN 50575:2016 - E_{CA}

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 5000 MOhm*Km

Impedance:
93 Ohm

Capacitance:
100 pF/m

Velocity of Propagation:
66%

Operating Voltage:
300 V

CHARACTERISTICS

Coaxial Cable

Min. Bending Radius
8 x cable diameter

Fixed Laying

PACKAGE:



WARNING

These cables can be installed along with power cables marked 450/750 V or 0,6/1 kV operating with systems having maximum voltage to ground 400 V AC

COAX CABLE

RG 62 B/U 93 Ω

Standard Version

RAMCRO CODE	OUTER DIAMETER [mm]	WEIGHT [kg/km]
RG 62	6.2	57

FREQUENCY [MHz]	ATTENUATION [dB/100m]
50	5.8
100	8.1
200	11.7
400	16.8
800	24.0
1000	27.3

ELECTRICAL RESISTANCE AT 20°C	[Ω/km]
CONDUCTOR RESISTANCE	130

LAN CABLE

Standard Version

U/UTP CAT. 5e 4x2x24 AWG

Standard Version

CONSTRUCTION

Formation:
Plain annealed copper wire, Solid
Insulation:
Polyetilene - PE
Rip Cord:
Nylon rip cord
Outher Sheath:
Polyvinyl chloride - PVC
Colour Outher Sheath:
Grey

STANDARD REFERENCES

- *EIA/TIA 568A*
- *EN 50173*
- *EN 50288-3-1*
- *IEC 61156-5*
- *ISO/IEC 11801*
- *IEC 60332-1*

ON REQUEST

- **Armor in steel wire (SWA)**
- **Armor in steel wire braid (SWB)**
- **Outher Sheath in LSZH**
- **Double outher sheath (for external use)**

IDENTIFICATION OF CORES

1 pair:
2 pair:
3 pair:
4 pair:

CPR CLASSIFICATION

EN 50575:2016 - E_{CA}

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

CABLE PRINTING

LANCRO BY RAMCRO – UTP 4x2xAWG24 CAT.5e - PVC - VERIFIED ISO IEC 11801- TIA/EIA 568 - EN 50575: 2014+A1:2016 CPR Class Eca + PN__/yy" METER MARKING"

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 5000 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 56 nF/km

Velocity of propagation:
67%

Operating Voltage:
300 V

CHARACTERISTICS

Data LAN Cable

Min. Bending Radius
8 x cable diameter

Fixed Laying

PACKAGE:



U/UTP CAT. 5e 4x2x24 AWG

Standard Version

RAMCRO CODE	OUTER DIAMETER [mm]	WEIGHT [kg/km]
UTPLEVEL5-4X2X022+	4.8	31

Technical Performance

FREQUENCY [MHz]	ATTENUATION [dB/100m]	RL [dB]	NEXT [dB]	PSNEXT [dB]	ELFEXT [dB]	PSELFEXT [dB]
1	2	20	65.3	62.3	64	61
4	4.1	23	56.3	53.3	52	49
8	5.8	24.5	51.8	48.8	45.9	42.9
10	6.5	25	50.3	47.3	44	41
16	8.2	25	47.2	44.4	39.9	36.9
20	9.3	25	45.8	42.8	38	35
25	10.4	24.3	44.3	41.3	35.8	33
31.25	11.7	23.6	42.9	39.9	34.1	31.1
62.5	17	21.5	38.4	35.4	28.1	25.1
100	22	20.1	35.3	32.3	24	21

ELECTRICAL RESISTANCE AT 20°C	[Ω/100m]
CONDUCTOR RESISTANCE	11.5

LAN CABLE

Economic Version

U/UTP CAT. 5e 4x2x24 AWG

Ecomic Version

CONSTRUCTION

Formation:
Copper claded aluminium, Solid (CCA)
Insulation:
Polyetilene - PE
Rip Cord:
Nylon rip cord
Outher Sheath:
Polyvinyl chloride - PVC
Colour Outher Sheath:
Grey

STANDARD REFERENCES

- *EIA/TIA 568A*
- *EN 50173*
- *EN 50288-3-1*
- *IEC 61156-5*
- *ISO/IEC 11801*
- *IEC 60332-1*

ON REQUEST

- **Armor in steel wire (SWA)**
- **Armor in steel wire braid (SWB)**
- **Outher Sheath in LSZH**
- **Double outher sheath (for external use)**

IDENTIFICATION OF CORES

1 pair:
2 pair:
3 pair:
4 pair:

CPR CLASSIFICATION

EN 50575:2016 - E_{CA}

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

CABLE PRINTING

LANCRO BY RAMCRO – UTP 4x2xAWG24 CAT.5e - PVC - VERIFIED ISO IEC 11801- TIA/EIA 568 - EN 50575: 2014+A1:2016 CPR Class Eca + PN__/yy" METER MARKING"

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 5000 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 56 nF/km

Velocity of propagation:
67%

Operating Voltage:
300 V

CHARACTERISTICS

Data LAN Cable

Min. Bending Radius
8 x cable diameter

Fixed Laying

PACKAGE:



LAN CABLE

Economic Version

U/UTP CAT. 5e 4x2x24 AWG

Standard Version

RAMCRO CODE	OUTER DIAMETER [mm]	WEIGHT [kg/km]
UTPLEVEL5-4X2X022+	4.8	31

Technical Performance

FREQUENCY [MHz]	ATTENUATION [dB/100m]	RL [dB]	NEXT [dB]	PSNEXT [dB]	ELFEXT [dB]	PSELFEXT [dB]
1	2	20	65.3	62.3	64	61
4	4.1	23	56.3	53.3	52	49
8	5.8	24.5	51.8	48.8	45.9	42.9
10	6.5	25	50.3	47.3	44	41
16	8.2	25	47.2	44.4	39.9	36.9
20	9.3	25	45.8	42.8	38	35
25	10.4	24.3	44.3	41.3	35.8	33
31.25	11.7	23.6	42.9	39.9	34.1	31.1
62.5	17	21.5	38.4	35.4	28.1	25.1
100	22	20.1	35.3	32.3	24	21

ELECTRICAL RESISTANCE AT 20°C	[Ω/100m]
CONDUCTOR RESISTANCE	11.5

LAN CABLE

Standard Version

U/UTP CAT. 6 4x2x23 AWG

Standard Version

CONSTRUCTION

Formation:
Plain annealed copper wire, Solid
Insulation:
Polyetilene - PE
Rip Cord:
Nylon rip cord
Outher Sheath:
Polyvinyl chloride - PVC
Colour Outher Sheath:
Grey

STANDARD REFERENCES

- *EIA/TIA 568A*
- *EN 50173*
- *EN 50288-3-1*
- *IEC 61156-5*
- *ISO/IEC 11801*
- *IEC 60332-1*

ON REQUEST

- **Armor in steel wire (SWA)**
- **Armor in steel wire braid (SWB)**
- **Outher Sheath in LSZH**
- **Double outher sheath (for external use)**

IDENTIFICATION OF CORES

1 pair:
2 pair:
3 pair:
4 pair:

CPR CLASSIFICATION

EN 50575:2016 - E_{CA}

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

CABLE PRINTING

LANCRO BY RAMCRO – UTP 4x2xAWG24 CAT.5e - PVC - VERIFIED ISO IEC 11801- TIA/EIA 568 - EN 50575: 2014+A1:2016 CPR Class Eca + PN__/yy" METER MARKING"

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 5000 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 56 nF/km

Velocity of propagation:
67%

Operating Voltage:
300 V

CHARACTERISTICS

Data LAN Cable

Min. Bending Radius
8 x cable diameter

Fixed Laying

PACKAGE:



U/UTP CAT. 6 4x2x23 AWG

Standard Version

RAMCRO CODE	OUTER DIAMETER [mm]	WEIGHT [kg/km]
UTPLEVEL6-4X2X0.22+	4.8	31

Technical Performance

FREQUENCY [MHz]	ATTENUATION [dB/100m]	RL [dB]	NEXT [dB]	PSNEXT [dB]	ELFEXT [dB]	PSELFEXT [dB]
1	2	20	65.3	62.3	64	61
4	4.1	23	56.3	53.3	52	49
8	5.8	24.5	51.8	48.8	45.9	42.9
10	6.5	25	50.3	47.3	44	41
16	8.2	25	47.2	44.4	39.9	36.9
20	9.3	25	45.8	42.8	38	35
25	10.4	24.3	44.3	41.3	35.8	33
31.25	11.7	23.6	42.9	39.9	34.1	31.1
62.5	17	21.5	38.4	35.4	28.1	25.1
100	22	20.1	35.3	32.3	24	21

ELECTRICAL RESISTANCE AT 20°C	[Ω/100m]
CONDUCTOR RESISTANCE	11.5

LAN CABLE

Economic Version

U/UTP CAT. 6 4x2x23 AWG

Economic Version

CONSTRUCTION

Formation:
Copper claded aluminium, Solid (CCA)
Insulation:
Polyetilene - PE
Rip Cord:
Nylon rip cord
Outher Sheath:
Polyvinyl chloride - PVC
Colour Outher Sheath:
Grey

STANDARD REFERENCES

- *EIA/TIA 568A*
- *EN 50173*
- *EN 50288-3-1*
- *IEC 61156-5*
- *ISO/IEC 11801*
- *IEC 60332-1*

ON REQUEST

- **Armor in steel wire (SWA)**
- **Armor in steel wire braid (SWB)**
- **Outher Sheath in LSZH**
- **Double outher sheath (for external use)**

IDENTIFICATION OF CORES

1 pair:
2 pair:
3 pair:
4 pair:

CPR CLASSIFICATION

EN 50575:2016 - E_{CA}

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

CABLE PRINTING

LANCRO BY RAMCRO – UTP 4x2xAWG24 CAT.5e - PVC - VERIFIED ISO IEC 11801- TIA/EIA 568 - EN 50575: 2014+A1:2016 CPR Class Eca + PN__/yy" METER MARKING"

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 5000 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 56 nF/km

Velocity of propagation:
67%

Operating Voltage:
300 V

CHARACTERISTICS

Data LAN Cable

Min. Bending Radius
8 x cable diameter

Fixed Laying

PACKAGE:



U/UTP CAT. 6 4x2x23 AWG

Economic Version

RAMCRO CODE	OUTER DIAMETER [mm]	WEIGHT [kg/km]
UTPLEVEL6-4X2X022	6.3	

Technical Performance

FREQUENCY [MHz]	ATTENUATION [dB/100m]	RL [dB]	NEXT [dB]	PSNEXT [dB]	ELFEXT [dB]	PSELFEXT [dB]
1	2.1	19.0	65.0	62.0	63.3	60.3
4	4.0	19.0	63.0	60.5	51.2	48.2
10	6.3	19.0	56.6	54.0	43.3	40.3
16	8.0	18.0	53.2	50.6	39.2	36.2
20	9.0	17.5	51.6	49.0	37.2	34.2
31.25	11.4	16.5	48.4	45.7	33.4	30.4
62.5	16.5	14.0	43.4	40.6	27.3	24.3
100	21.3	12.0	38.9	37.1	23.3	20.3
200	31.5	9.0	34.8	31.9	17.2	14.2
250	35.9	8.0	33.1	30.2	15.3	12.3

ELECTRICAL RESISTANCE AT 20°C	[Ω/100m]
CONDUCTOR RESISTANCE	11.5

LAN CABLE

Standard Version

U/UTP CAT. 6A 4x2x23 AWG

Standard Version

CONSTRUCTION

Formation:
Plain annealed copper wire, Solid
Insulation:
Polyetilene - PE
Rip Cord:
Nylon rip cord
Outher Sheath:
Polyvinyl chloride - PVC
Colour Outher Sheath:
Grey

STANDARD REFERENCES

- *EIA/TIA 568A*
- *EN 50173*
- *EN 50288-3-1*
- *IEC 61156-5*
- *ISO/IEC 11801*
- *IEC 60332-1*

ON REQUEST

- **Armor in steel wire (SWA)**
- **Armor in steel wire braid (SWB)**
- **Outher Sheath in LSZH**
- **Double outher sheath (for external use)**

IDENTIFICATION OF CORES

1 pair:
2 pair:
3 pair:
4 pair:

CPR CLASSIFICATION

EN 50575:2016 - E_{CA}

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

CABLE PRINTING

LANCRO BY RAMCRO – UTP 4x2xAWG24 CAT.5e - PVC - VERIFIED ISO IEC 11801- TIA/EIA 568 - EN 50575: 2014+A1:2016 CPR Class Eca + PN__/yy" METER MARKING"

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 5000 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 56 nF/km

Velocity of propagation:
67%

Operating Voltage:
300 V

CHARACTERISTICS

Data LAN Cable

Min. Bending Radius
8 x cable diameter

Fixed Laying

PACKAGE:

U/UTP CAT. 6A 4x2x23 AWG

Standard Version

RAMCRO CODE	OUTER DIAMETER [mm]	WEIGHT [kg/km]
UTPLEVEL5-4X2X022+	4.8	31

Technical Performance

FREQUENCY [MHz]	ATTENUATION [dB/100m]	RL [dB]	NEXT [dB]	PSNEXT [dB]	ELFEXT [dB]	PSELFEXT [dB]
1	2	20	65.3	62.3	64	61
4	4.1	23	56.3	53.3	52	49
8	5.8	24.5	51.8	48.8	45.9	42.9
10	6.5	25	50.3	47.3	44	41
16	8.2	25	47.2	44.4	39.9	36.9
20	9.3	25	45.8	42.8	38	35
25	10.4	24.3	44.3	41.3	35.8	33
31.25	11.7	23.6	42.9	39.9	34.1	31.1
62.5	17	21.5	38.4	35.4	28.1	25.1
100	22	20.1	35.3	32.3	24	21

ELECTRICAL RESISTANCE AT 20°C	[Ω/100m]
CONDUCTOR RESISTANCE	11.5

LAN CABLE

Econimic Version

U/UTP CAT. 6A 4x2x23 AWG

Economic Version

CONSTRUCTION

Formation:
Copper claded aluminium, Solid (CCA)
Insulation:
Polyetilene - PE
Rip Cord:
Nylon rip cord
Outher Sheath:
Polyvinyl chloride - PVC
Colour Outher Sheath:
Grey

STANDARD REFERENCES

- *EIA/TIA 568A*
- *EN 50173*
- *EN 50288-3-1*
- *IEC 61156-5*
- *ISO/IEC 11801*
- *IEC 60332-1*

ON REQUEST

- **Armor in steel wire (SWA)**
- **Armor in steel wire braid (SWB)**
- **Outher Sheath in LSZH**
- **Double outher sheath (for external use)**

IDENTIFICATION OF CORES

1 pair:
2 pair:
3 pair:
4 pair:

CPR CLASSIFICATION

EN 50575:2016 - E_{CA}

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

CABLE PRINTING

LANCRO BY RAMCRO – UTP 4x2xAWG24 CAT.5e - PVC - VERIFIED ISO IEC 11801- TIA/EIA 568 - EN 50575: 2014+A1:2016 CPR Class Eca + PN__/yy" METER MARKING"

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 5000 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 56 nF/km

Velocity of propagation:
67%

Operating Voltage:
300 V

CHARACTERISTICS

Data LAN Cable

Min. Bending Radius
8 x cable diameter

Fixed Laying

PACKAGE:

U/UTP CAT. 6A 4x2x23 AWG

Economic Version

RAMCRO CODE	OUTER DIAMETER [mm]	WEIGHT [kg/km]
UTPLEVEL5-4X2X022+	4.8	31

Technical Performance

FREQUENCY [MHz]	ATTENUATION [dB/100m]	RL [dB]	NEXT [dB]	PSNEXT [dB]	ELFEXT [dB]	PSELFEXT [dB]
1	2	20	65.3	62.3	64	61
4	4.1	23	56.3	53.3	52	49
8	5.8	24.5	51.8	48.8	45.9	42.9
10	6.5	25	50.3	47.3	44	41
16	8.2	25	47.2	44.4	39.9	36.9
20	9.3	25	45.8	42.8	38	35
25	10.4	24.3	44.3	41.3	35.8	33
31.25	11.7	23.6	42.9	39.9	34.1	31.1
62.5	17	21.5	38.4	35.4	28.1	25.1
100	22	20.1	35.3	32.3	24	21

ELECTRICAL RESISTANCE AT 20°C	[Ω/100m]
CONDUCTOR RESISTANCE	11.5

LAN CABLE

Standard Version

F/UTP CAT. 5e 4x2x23 AWG

Standard Version

CONSTRUCTION

Formation:
Plain annealed copper wire, Solid
Insulation:
Polyetilene - PE
Rip Cord:
Nylon rip cord
Outher Sheath:
Polyvinyl chloride - PVC
Colour Outher Sheath:
Grey

STANDARD REFERENCES

- *EIA/TIA 568A*
- *EN 50173*
- *EN 50288-3-1*
- *IEC 61156-5*
- *ISO/IEC 11801*
- *IEC 60332-1*

ON REQUEST

- **Armor in steel wire (SWA)**
- **Armor in steel wire braid (SWB)**
- **Outher Sheath in LSZH**
- **Double outher sheath (for external use)**

IDENTIFICATION OF CORES

1 pair:
2 pair:
3 pair:
4 pair:

CPR CLASSIFICATION

EN 50575:2016 - E_{CA}

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

CABLE PRINTING

LANCRO BY RAMCRO – UTP 4x2xAWG24 CAT.5e - PVC - VERIFIED ISO IEC 11801- TIA/EIA 568 - EN 50575: 2014+A1:2016 CPR Class Eca + PN__/yy" METER MARKING"

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 5000 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 56 nF/km

Velocity of propagation:
67%

Operating Voltage:
300 V

CHARACTERISTICS

Data LAN Cable

Min. Bending Radius
8 x cable diameter

Fixed Laying

PACKAGE:

F/UTP CAT. 5e 4x2x23 AWG

Standard Version

RAMCRO CODE	OUTER DIAMETER [mm]	WEIGHT [kg/km]
UTPLEVEL5-4X2X022+	4.8	31

Technical Performance

FREQUENCY [MHz]	ATTENUATION [dB/100m]	RL [dB]	NEXT [dB]	PSNEXT [dB]	ELFEXT [dB]	PSELFEXT [dB]
1	2	20	65.3	62.3	64	61
4	4.1	23	56.3	53.3	52	49
8	5.8	24.5	51.8	48.8	45.9	42.9
10	6.5	25	50.3	47.3	44	41
16	8.2	25	47.2	44.4	39.9	36.9
20	9.3	25	45.8	42.8	38	35
25	10.4	24.3	44.3	41.3	35.8	33
31.25	11.7	23.6	42.9	39.9	34.1	31.1
62.5	17	21.5	38.4	35.4	28.1	25.1
100	22	20.1	35.3	32.3	24	21

ELECTRICAL RESISTANCE AT 20°C	[Ω/100m]
CONDUCTOR RESISTANCE	11.5

LAN CABLE

Standard Version

F/UTP CAT. 6 4x2x23 AWG

Standard Version

CONSTRUCTION

Formation:
Plain annealed copper wire, Solid
Insulation:
Polyetilene - PE
Rip Cord:
Nylon rip cord
Outher Sheath:
Polyvinyl chloride - PVC
Colour Outher Sheath:
Grey

STANDARD REFERENCES

- *EIA/TIA 568A*
- *EN 50173*
- *EN 50288-3-1*
- *IEC 61156-5*
- *ISO/IEC 11801*
- *IEC 60332-1*

ON REQUEST

- **Armor in steel wire (SWA)**
- **Armor in steel wire braid (SWB)**
- **Outher Sheath in LSZH**
- **Double outher sheath (for external use)**

IDENTIFICATION OF CORES

1 pair:
2 pair:
3 pair:
4 pair:

CPR CLASSIFICATION

EN 50575:2016 - E_{CA}

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

CABLE PRINTING

LANCRO BY RAMCRO – UTP 4x2xAWG24 CAT.5e - PVC - VERIFIED ISO IEC 11801- TIA/EIA 568 - EN 50575: 2014+A1:2016 CPR Class Eca + PN__/yy" METER MARKING"

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 5000 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 56 nF/km

Velocity of propagation:
67%

Operating Voltage:
300 V

CHARACTERISTICS

Data LAN Cable

Min. Bending Radius
8 x cable diameter

Fixed Laying

PACKAGE:



F/UTP CAT. 6 4x2x23 AWG

Standard Version

RAMCRO CODE	OUTER DIAMETER [mm]	WEIGHT [kg/km]
F/UTPLEVEL64X2X022+	7.2	52

Technical Performance

FREQUENCY [MHz]	ATTENUATION [dB/100m]	RL [dB]	NEXT [dB]	PSNEXT [dB]	ELFEXT [dB]	PSELFEXT [dB]
1	2	20	65.3	62.3	64	61
4	4.1	23	56.3	53.3	52	49
8	5.8	24.5	51.8	48.8	45.9	42.9
10	6.5	25	50.3	47.3	44	41
16	8.2	25	47.2	44.4	39.9	36.9
20	9.3	25	45.8	42.8	38	35
25	10.4	24.3	44.3	41.3	35.8	33
31.25	11.7	23.6	42.9	39.9	34.1	31.1
62.5	17	21.5	38.4	35.4	28.1	25.1
100	22	20.1	35.3	32.3	24	21

ELECTRICAL RESISTANCE AT 20°C	[Ω/100m]
CONDUCTOR RESISTANCE	11.5

TELEPHONE CABLE

Standard Version

TRR

Standard Version

CONSTRUCTION

Formation:
Tinned Copper Claded Aluminium, Solid
Insulation:
Polyvinyl chloride - PVC
Rip Cord:
Nylon rip cord
Outher Sheath:
Polyvinyl chloride - PVC
Colour Outher Sheath:
Grey

STANDARD REFERENCES

- *CEI 20-29*
- *CEI 20-11*
- *CEI UNEL 36762*
- *CEI 46-5*

CPR CLASSIFICATION

EN 50575:2016 - E_{CA}

IDENTIFICATION OF CORES

- In according to CEI UNEL 00724

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 25 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 150 nF/km

Operating Voltage:
300 V

CHARACTERISTICS

Telephone Cable

Min. Bending Radius
8 x cable diameter

Fixed Laying

PACKAGE:

TRR

Standard Version

RAMCRO CODE	FORMATION [n° x mm²]	OUTER DIAMETER [mm]	MAX RESISTANCE AT 20°C [Ohm/km]
TRR1T	1x2x0.60 + T	3.4	134.0
TRR2T	2x2x0.60 + T	4.8	134.0
TRR3	3x2x0.60	5.2	134.0
TRR4	4x2x0.60	5.8	134.0
TRR5	5x2x0.60	6.0	134.0
TRR6	6x2x0.60	7.0	134.0
TRR8	8x2x0.60	7.4	134.0
TRR101	11x2x0.60	8.6	134.0
TRR151	16x2x0.60	10.0	134.0
TRR201	21x2x0.60	11.2	134.0

TELEPHONE CABLE

Standard Version

TRHR

Standard Version

CONSTRUCTION

Formation:
Tinned Copper Claded Aluminium, Solid
Insulation:
Polyvinyl chloride - PVC
Rip Cord:
Nylon rip cord
Outher Sheath:
PVC
Colour Outher Sheath:
White

STANDARD REFERENCES

- *CEI 20-29*
- *CEI 20-11*
- *CEI UNEL 36762*
- *CEI 46-5*

CPR CLASSIFICATION

EN 50575:2016 - E_{CA}

IDENTIFICATION OF CORES

- In according to CEI UNEL 00724

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 25 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 56 nF/km

Operating Voltage:
300 V

CHARACTERISTICS

Telephone Cable

Min. Bending Radius
8 x cable diameter

Fixed Laying

PACKAGE:



TRHR

Standard Version

RAMCRO CODE	FORMATION [n° x mm]	OUTER DIAMETER [mm]	MAX RESISTANCE AT 20°C [Ohm/km]
TRHR1T	1x2x0.60 + T	3.8	134.0
TRHR2T	2x2x0.60 + T	5.2	134.0
TRHR3	3x2x0.60	5.4	134.0
TRHR4	4x2x0.60	6.2	134.0
TRHR5	5x2x0.60	6.3	134.0
TRHR6	6x2x0.60	7.4	134.0
TRHR8	8x2x0.60	7.8	134.0
TRHR101	10x2x0.60 + 1x2x0.60	8.8	134.0
TRHR151	15x2x0.60 + 1x2x0.60	10.2	134.0
TRHR201	20x2x0.60 + 1x2x0.60	11.4	134.0
TRHR251	24x2x0.60 + 1x2x0.60	12.4	134.0
TRHR301	30x2x0.60 + 1x2x0.60	13.4	134.0
TRHR501	50x2x0.60 + 1x2x0.60	16.8	134.0
TRHR100	100x2x0.60	23.4	134.0

ACCESS & CONTROL CABLE

Standard Version

VCS

Standard Version

CONSTRUCTION

Formation:
Copper Claded Aluminium - CCA, Multistrand
Insulation:
Polyvinyl chloride - PVC
Rip Cord:
Nylon rip cord
Outher Sheath:
Polyvinyl chloride - PVC
Colour Outher Sheath:
Grey

STANDARD REFERENCES

- *CEI 20-29*
- *CEI 20-11*
- *CEI UNEL 36762*
- *CEI 46-5*

ON REQUEST

- **Armour in steel wire braid**
- **Personilezed colour code and outher sheath**

IDENTIFICATION OF CORES

- **In according to CEI UNEL 00724**

CPR CLASSIFICATION

EN 50575:2016 - E_{CA}

TEMPERATURE RANGE

During Operation:
-30° C up to +80°C
During Installation:
-5° C up to +50°C

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 25 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 150 nF/km

Operating Voltage:
300 V

CHARACTERISTICS

Access & Control

Min. Bending Radius
8 x cable diameter

Fixed Laying

PACKAGE:



VCS

Standard Version

RAMCRO CODE	FORMATION [n° x mm]	OUTER DIAMETER [mm]	MAX RESISTANCE AT 20°C [Ohm/km]
VCS0250HAAAC	2x0.50	4.2	83.6
VCS0350HAAAC	3x0.50	4.4	83.6
VCS0450HAAAC	4x0.50	5.0	83.6
VCS0650HAAAC	6x0.50	5.9	83.6
VCS0850HAAAC	8x0.50	6.7	83.6
VCS1050HAAAC	10x0.50	7.6	83.6
VCS1250HAAAC	12x0.50	7.8	83.6
VCS1450HAAAC	14x0.50	8.5	83.6
VCS1650HAAAC	16x0.50	8.8	83.6
VCS0250IAAAC	2x0.50	5.4	83.6
VCS0450IAAAC	4x0.50	6.4	83.6
VCS0650IAAAC	6x0.50	7.1	83.6
VCS0850IAAAC	8x0.50	7.9	83.6

FIRE COMET

CA01.00716

CEI 20-105 - FG4OHM1 PH30

Multi-Core, Multistrand CU, Silicon Rubber-Insulation, Collective Screen, LSZH-Sheath

CA01.00716

CONSTRUCTION

Formation:
Plain annealed copper wire, Multistrand
Insulation:
Special mix silicon rubber
Wrapping:
at least 1 layer of plastic tape 0,023 mm
Collective Screen:
0,026 mm Aluminium / PETP tape over copper drain wire
Outher Sheath:
Thermoplastic Low Smoke, Halogen Free
Colour Outher Sheath:
Red or Violet

STANDARD REFERENCES

- *CEI 20-105*
- *UNI 9795*
- *CEI 20-36*
- *CEI EN 60332-3-25*

IDENTIFICATION OF CORES

2 cores: ● ●

CPR CLASSIFICATION

EN 50575:2016 - C_{CA} s1A, d0, a1

TEMPERATURE RANGE

During Operation:
-30° C up to +180°C
During Installation:
-5° C up to +50°C

CABLE PRINTING

RAMFIRECRO–F3 - FIRE COMET - CEI 20-105 - FG4OHM1 - UNI 9795 - CEI 20-36/4-0 PH30 IEMMEQU 2x1 mmq CEI EN 60332-3-25 - 100/100 V - Uo400 V + BATCH + YEAR OF PRODUCTION

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 200 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 150 nF/km

Inductance:
< 1 mH/km

Operating Voltage:
100/100 V

CHARACTERISTICS

Fire Resistant

Min. Bending Radius
8 x cable diameter

Low Smoke Halogen Free

Italian Market

CEI 20-105 - FG4OHM1 PH30

Multi-Core, Multistrand CU, Silicon Rubber-Insulation, Collective Screen, LSZH-Sheath

RAMCRO CODE	FORMATION [n° x mm²]	OUTER DIAMETER [mm]	WEIGHT [kg/km]	MAX RESISTANCE AT 20°C [Ohm/km]
SAS0250HFEEH-F3FG4	2x0.50*	5.6*	39	39.8
SAS0275HFEEH-F3FG4	2x0.75*	6.3*	49	26.5
SAS0210HFEEH-F3FG4	2x1.00*	7.6*	67	19.9
SAS0215HFEEH-F3FG4	2x1.50*	8.6*	88	13.6
SAS0225HFEEH-F3FG4	2x2.50*	10.1*	129	8.1
SAS0240HFEEH-F3FG4	2x4.00	10.9	158	5.0

* Cables certified by IMQ

Cables for **EVAC** voice evacuation systems - Violet Sheath

RAMCRO CODE	FORMATION [n° x mm²]	OUTER DIAMETER [mm]	WEIGHT [kg/km]	MAX RESISTANCE AT 20°C [Ohm/km]
SAS0250HXEEH-F3FG4	2x0.50*	5.6*	39	39.8
SAS0275HXEEH-F3FG4	2x0.75*	6.3*	49	26.5
SAS0210HXEEH-F3FG4	2x1.00*	7.6*	67	19.9
SAS0215HXEEH-F3FG4	2x1.50*	8.6*	88	13.6
SAS0225HXEEH-F3FG4	2x2.50*	10.1*	129	8.1
SAS0240HXEEH-F3FG4	2x4.00	10.9	158	5.0

* Cables certified by IMQ

FIRE COMET

CEI 20-105 - FG4OHM1 PH120

Multi-Core, Multistrand CU, Silicon Rubber-Insulation, Collective Screen, LSZH-Sheath

CONSTRUCTION

Formation:
Plain annealed copper wire, Multistrand
Insulation:
Special mix silicon rubber
Wrapping:
at least 1 layer of plastic tape 0,023 mm
Collective Screen:
0,026 mm Aluminium / PETP tape over copper drain wire
Outher Sheath:
Thermoplastic Low Smoke, Halogen Free
Colour Outher Sheath:
Red or Violet

STANDARD REFERENCES

- *CEI 20-105*
- *UNI 9795*
- *CEI 20-36*
- *CEI EN 60332-3-25*

IDENTIFICATION OF CORES

2 cores: ● ●

CPR CLASSIFICATION

EN 50575:2016 - C_{CA} s1A, d0, a1

TEMPERATURE RANGE

During Operation:
-30° C up to +180°C
During Installation:
-5° C up to +50°C

CABLE PRINTING

RAMFIRECRO–F3 - FIRE COMET - CEI 20-105 - FG4OHM1 - UNI 9795 - CEI 20-36/4-0 (PH120) 2x1 mmq CEI EN 60332-3-25 - 100/100 V - Uo400 V + BATCH + YEAR OF PRODUCTION

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 200 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 150 nF/km

Inductance:
< 1 mH/km

Operating Voltage:
100/100 V

CHARACTERISTICS

Fire Resistant

Min. Bending Radius
8 x cable diameter

Low Smoke Halogen Free

Italian Market

FIRE COMET

CEI 20-105 - FG4OHM1 PH120

Multi-Core, Multistrand CU, Silicon Rubber-Insulation, Collective Screen, LSZH-Sheath

RAMCRO CODE	FORMATION [n° x mm²]	OUTER DIAMETER [mm]	WEIGHT [kg/km]	MAX RESISTANCE AT 20°C [Ohm/km]
SAS0250HFEEH-F3FG4120	2x0.50	5.6	38	39.8
SAS0275HFEEH-F3FG4120	2x0.75	6.3	48	26.5
SAS0210HFEEH-F3FG4120	2x1.00	7.6	68	19.9
SAS0215HFEEH-F3FG4120	2x1.50	8.6	88	13.6
SAS0225HFEEH-F3FG4120	2x2.50	10.1	128	8.1
SAS0240HFEEH-F3FG4120	2x4.00	10.9	157	5.0

Cables for **EVAC** voice evacuation systems - Violet Sheath

RAMCRO CODE	FORMATION [n° x mm²]	OUTER DIAMETER [mm]	WEIGHT [kg/km]	MAX RESISTANCE AT 20°C [Ohm/km]
SAS0250HXEEH-F3FG4120	2x0.50	5.6	38	39.8
SAS0275HXEEH-F3FG4120	2x0.75	6.3	48	26.5
SAS0210HXEEH-F3FG4120	2x1.00	7.6	68	19.9
SAS0215HXEEH-F3FG4120	2x1.50	8.6	88	13.6
SAS0225HXEEH-F3FG4120	2x2.50	10.1	128	8.1
SAS0240HXEEH-F3FG4120	2x4.00	10.9	157	5.0

FIRE COMET

CEI 20-105 - FTE4OHM1 PH30

Multi-Core, Multistrand CU, Silicon Rubber-Insulation, Collective Screen, LSZH-Sheath

CONSTRUCTION

Formation:
Plain annealed copper wire, Multistrand
Insulation:
Special mix silicon rubber
Wrapping:
at least 1 layer of plastic tape 0,023 mm
Collective Screen:
0,026 mm Aluminium / PETP tape over copper drain wire
Outher Sheath:
Thermoplastic Low Smoke, Halogen Free
Colour Outher Sheath:
Red or Violet

STANDARD REFERENCES

- *CEI 20-105*
- *UNI 9795*
- *CEI 20-36*
- *CEI EN 60332-3-25*

IDENTIFICATION OF CORES

2 cores: ● ●

TEMPERATURE RANGE

During Operation:
-30° C up to +180°C
During Installation:
-5° C up to +50°C

CABLE PRINTING

RAMFIRECRO–F3 - FIRE COMET - CEI 20-105 - FTE4OHM1 - UNI 9795 - CEI 20-36/4-0 (PH30) 2x1 mmq CEI EN 60332-3-25 - 100/100 V - Uo400 V + year of production

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 200 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 150 nF/km

Inductance:
< 1 mH/km

Operating Voltage:
100/100 V

CHARACTERISTICS

Fire Resistant

Min. Bending Radius
8 x cable diameter

Low Smoke Halogen Free

Italian Market

FIRE COMET

CEI 20-105 - FTE4OHM1 PH30

Multi-Core, Multistrand CU, Silicon Rubber-Insulation, Collective Screen, LSZH-Sheath

RAMCRO CODE	FORMATION [n° x mm²]	OUTER DIAMETER [mm]	WEIGHT [kg/km]	MAX RESISTANCE AT 20°C [Ohm/km]
SAS0250HFEOH-F3FG4	2x0.50	5.6	38	39.8
SAS0275HFEOH-F3FG4	2x0.75	6.3	48	26.5
SAS0210HFEOH-F3FG4	2x1.00	7.6	68	19.9
SAS0215HFEOH-F3FG4	2x1.50	8.6	88	13.6
SAS0225HFEOH-F3FG4	2x2.50	10.1	128	8.1
SAS0240HFEOH-F3FG4	2x4.00	10.9	157	5.0

Cables for **EVAC** voice evacuation systems - Violet Sheath

RAMCRO CODE	FORMATION [n° x mm²]	OUTER DIAMETER [mm]	WEIGHT [kg/km]	MAX RESISTANCE AT 20°C [Ohm/km]
SAS0250HXEOH-F3FG4	2x0.50	5.6	38	39.8
SAS0275HXEOH-F3FG4	2x0.75	6.3	48	26.5
SAS0210HXEOH-F3FG4	2x1.00	7.6	68	19.9
SAS0215HXEOH-F3FG4	2x1.50	8.6	88	13.6
SAS0225HXEOH-F3FG4	2x2.50	10.1	128	8.1
SAS0240HXEOH-F3FG4	2x4.00	10.9	157	5.0

FIRE COMET

CEI 20-105 - FTE4OHM1 PH120

Multi-Core, Multistrand CU, Silicon Rubber-Insulation, Collective Screen, LSZH-Sheath

CONSTRUCTION

Formation:
Plain annealed copper wire, Multistrand
Insulation:
Special mix silicon rubber
Wrapping:
at least 1 layer of plastic tape 0,023 mm
Collective Screen:
0,026 mm Aluminium / PETP tape over copper drain wire
Outher Sheath:
Thermoplastic Low Smoke, Halogen Free
Colour Outher Sheath:
Red or Violet

STANDARD REFERENCES

- *CEI 20-105*
- *UNI 9795*
- *CEI 20-36*
- *CEI EN 60332-3-25*

IDENTIFICATION OF CORES

2 cores: ● ●

TEMPERATURE RANGE

During Operation:
-30° C up to +180°C
During Installation:
-5° C up to +50°C

CABLE PRINTING

RAMFIRECRO–F3 - FIRE COMET - CEI 20-105 - FTE4OHM1 - UNI 9795 - CEI 20-36/4-0 (PH120) 2x1 mmq CEI EN 60332-3-25 - 100/100 V - Uo400 V + year of production

ELECTRICAL DATA

Insulation Resistance @ 20°C:
> 200 MOhm*Km

Test Voltage Core-Core:
2000 V

Test Voltage Core-Screen:
2000 V

Mutual Capacitance:
< 150 nF/km

Inductance:
< 1 mH/km

Operating Voltage:
100/100 V

CHARACTERISTICS

Fire Resistant

Min. Bending Radius
8 x cable diameter

Low Smoke Halogen Free

Italian Market

FIRE COMET

CEI 20-105 - FTE4OHM1 PH120

Multi-Core, Multistrand CU, Silicon Rubber-Insulation, Collective Screen, LSZH-Sheath

RAMCRO CODE	FORMATION [n° x mm²]	OUTER DIAMETER [mm]	WEIGHT [kg/km]	MAX RESISTANCE AT 20°C [Ohm/km]
SAS0250HFEOH-F3FG4120	2x0.50	7.0	53	39.8
SAS0275HFEOH-F3FG4120	2x0.75	7.5	61	26.5
SAS0210HFEOH-F3FG4120	2x1.00	7.8	67	19.9
SAS0215HFEOH-F3FG4120	2x1.50	8.6	86	13.6
SAS0225HFEOH-F3FG4120	2x2.50	9.6	115	8.1
SAS0240HFEOH-F3FG4120	2x4.00	11.1	157	5.0

Cables for **EVAC** voice evacuation systems - Violet Sheath

RAMCRO CODE	FORMATION [n° x mm²]	OUTER DIAMETER [mm]	WEIGHT [kg/km]	MAX RESISTANCE AT 20°C [Ohm/km]
SAS0250HXEOH-F3FG4120	2x0.50	7.0	53	39.8
SAS0275HXEOH-F3FG4120	2x0.75	7.5	61	26.5
SAS0210HXEOH-F3FG4120	2x1.00	7.8	67	19.9
SAS0215HXEOH-F3FG4120	2x1.50	8.6	86	13.6
SAS0225HXEOH-F3FG4120	2x2.50	9.6	115	8.1
SAS0240HXEOH-F3FG4120	2x4.00	11.1	157	5.0

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