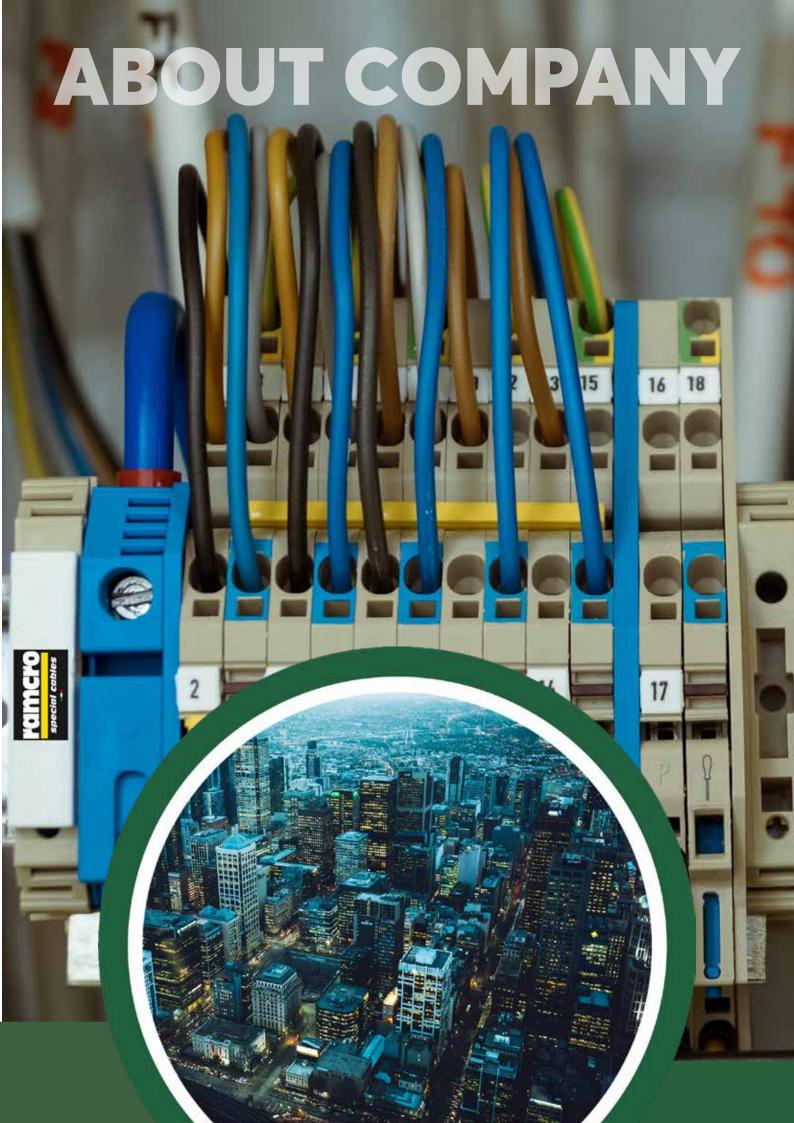


special cables

SPECIAL CABLES CATALOGUE







SPECIAL CATALOGUE

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ALARM CABLE

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

IDENTIFICATION OF CORES

0,22 mm2:

0,50/0,75 mm2:

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

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

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



PACKAGE: 100, 500, 1000 mt







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



CHARACTERISTICS





Min. Bending Radius 10 x cable diameter





CABLES FOR CIVIL AND INDUSTRIAL SAFETY PLANTS

Standard Version

RAMCRO CODE	FORMATION [n° x AWG]	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

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

ALARM CABLE

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

IDENTIFICATION OF CORES

0,22 mm2:

0,50/0,75 mm2:

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

PACKAGE: 100, 500, 1000 mt







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



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

CPR CLASSIFICATION

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

TEMPERATURE RANGE

During Operation: -30° C up to $+80^{\circ}$ C

During Installation:

-5° C up to +50°C



CHARACTERISTICS

Alarm Cable



Min. Bending Radius 10 x cable diameter



Direct Buried





CABLES FOR CIVIL AND INDUSTRIAL SAFETY PLANTS

Standard Version for external use

RAMCRO CODE	FORMATION [nº x AWG]	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+	6x0.22	5.1	122.0
SAS0822IDSNA+	8x0.22	5.5	122.0
SAS1022IDSNA+	10x0.22	6.0	122.0
SAS1222IDSNA+	12x0.22	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

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

ALARM CABLE

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

IDENTIFICATION OF CORES

0,22 mm2:

0,50/0,75 mm2:

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

PACKAGE: 100, 500, 1000 mt







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



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

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



CHARACTERISTICS

Low Smoke Halogen



Min. Bending Radius 8 x cable diameter





CABLES FOR CIVIL AND INDUSTRIAL SAFETY PLANTS

Standard Version

RAMCRO CODE	FORMATION [n° x AWG]	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

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

ALARM CABLE

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

IDENTIFICATION OF CORES

0,22 mm2:

0,50/0,75 mm2:

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

PACKAGE: 100, 500, 1000 mt







These cables can be installed along with power cables marked $450/750\,\mathrm{V}$ or $0.6/1\,\mathrm{kV}$ operating with systems having maximum voltage to ground $400\,\mathrm{V}$ AC



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

CPR CLASSIFICATION

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

TEMPERATURE RANGE

During Operation:

-30° C up to +80°C **During Installation:**

-5° C up to +50°C



CHARACTERISTICS

Low Smoke Halogen Free



Min. Bending Radius 8 x cable diameter



Direct Buried



CABLES FOR CIVIL AND INDUSTRIAL SAFETY PLANTS

Standard Version for external use

RAMCRO CODE	FORMATION [n° x AWG]	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

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





EV CABLE CONNECTION FOR CHARGING STATIONS

APPLICATION

The EV RAMCRO Cable is suitable for EV charging unit power and flow monitoring. The cable is a combination of power cores and screened Cat6A data cable offering a solution for quick installation including connection to CTs, eliminating the need to run two separate cables. Suitable for installation in air, clipped to surface, on tray/ladder, embedded in concrete, and for direct burial when mechanical protection is in place.

CHARACTERISTICS

Voltage 0.6/1kV Test Voltage 5000V

Temperature Rating Fixed: -30°C to +80°C
Minimum Bending Radius 6 x outer diameter

CONSTRUCTION

Conductor

Power Cores: Class 5 flexible stranded Copper

Cat6A Pairs: Class 1 solid Copper

Insulation

Power Cores: XLPE (Cross- Linked Polyethylene) Cat6A Pairs: HDPE (High Density Polyethylene)

Individual & Collective Screen (Cat6A F/FTP Pairs only)

AI/PET (Aluminium/Polyester Tape) with tinned copper drain wire

Cat6A Sheath

LSZH (Low Smoke Zero Halogen)

Tape and Interstitial Fillers

Outer Sheath

LSZH (Low Smoke Zero Halogen) - UV Resistant

Sheath Color

Black

CABLE WARRANTY

This cable has a warranty period of 25 years

STANDARDS

IEC 60502-1, IEC/EN 60228, TIA/EIA 568-B.10, IEC 61158-5

UV Resistant to EN 50396 Abrasion Resistant to EN 50289-3-7 Low Smoke Zero Halogen according to IEC/EN 61034-1/2, IEC/EN 60754-1/2 Flame retardant according to IEC/EN 60332-1-2, IEC/EN 60332-3-24

REGULATORY COMPLIANCE

This cable is compliant with European Regulation EN 50575, the Construction Products Regulation

This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU.

Core Identification

Power - 3 Cores:

Blue Brown Green/Yellow

Power - 4 Cores:

Blue Brown Black Green/Yellow

Power - 5 Cores:

Blue Brown Black Grey Green/Yellow

Cat6A Pairs:

EV CABLE CONNECTION FOR CHARGING STATIONS

Diamension

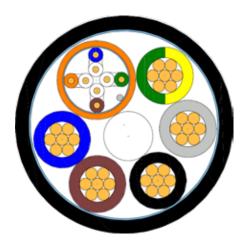
RAMCRO CODE	NUMBER OF CORES	NOMINAL CROSS SECTIONAL AREA POWER CORES	NOMINAL AWG SIZE CAT6A DATA	NOMINAL DIAMETER CAT6A	NOMINAL THICKNESS INSULATION (POWER)	NOMINAL OVERALL DIAMETER	NOMINAL PULLING TENSION	NOMINAL WEIGHT
		mm2	AWG	mm	mm	mm	N	kg/km
VCS0325HEEXM-CL5-FFTP6A	3	2.50	23	6.9	0.7	13.3	434	355
VCS0425HEEXF-CL5-FFTP6A	4	2.50	23	6.9	0.7	13.9	545	402
VCS0525HEEXX-CL5-FFTP6A	5	2.50	23	6.9	0.7	14.7	657	450
VCS0340HEEXM-CL5-FFTP6A	3	4.00	23	6.9	0.8	14.5	609	435
VCS0440HEEXF-CL5-FFTP6A	4	4.00	23	6.9	0.8	15.4	779	508
VCS0540HEEXZ-CL5-FFTP6A	5	4.00	23	6.9	0.8	16.5	948	584
VCS0360HEEXM-CL5-FFTP6A	3	6.00	23	6.9	0.9	16.1	899	560
VCS0460HEEXF-CL5-FFTP6A	4	6.00	23	6.9	0.9	17.5	1166	662
VCS0560HEEXZ-CL5-FFTP6A	5	6.00	23	6.9	0.9	19.1	1343	770

Electrical Charactertistics

NOMINAL CROSS SECTIONAL AREA POWER CORES mm2	POWER CONDUC- TOR DC RESISTANCE AT 20°C Ω/km	NCAT6A DATA CON- DUCTOR DC RESISTANCE AT 20°C Ω/km	INSULATION RESISTANCE AT 20°C MΩ/km	MUTUAL CAPACITANCE max nF/km	INDUCTANCE max mH/km	L/R RATIO max uH/Ω	CURRENT CAR- RYING CAPACITY AT 30oC Amps
2.50	8.3	93.8	1000	140	1	60	26
4.00	5.1	93.8	1000	130	1	60	35
6.00	3.4	93.8	1000	115	1	60	44







LAN Cat. 6 4x2x23AWG + 5x6.0 mm2

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances





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

CPR CLASSIFICATION

EN 50575:2016 - Eca

ELECTRICAL DATA

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

Impedance:50 OhmCapacitance:100 pF/mVelocity of Propagation:66%Operating Voltage:300 V

PACKAGE: 100, 500, 1000 mt







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



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)

TEMPERATURE RANGE

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



CHARACTERISTICS

Coaxial Cable



Min. Bending Radius 8 x cable diameter





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

RG 174 U 50 Ω

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



MAZARABARARA

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

CPR CLASSIFICATION

EN 50575:2016 - E_{CA}

ELECTRICAL DATA

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

Impedance: 50 Ohm
Capacitance: 101 pF/m
Velocity of Propagation: 66%
Operating Voltage: 300 V

PACKAGE: 100, 500, 1000 mt







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



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)

TEMPERATURE RANGE

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



CHARACTERISTICS

Coaxial Cable



Min. Bending Radius 8 x cable diameter





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

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

CPR CLASSIFICATION

EN 50575:2016 - ECA

ELECTRICAL DATA

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

Impedance:50 OhmCapacitance:100 pF/mVelocity of Propagation:66%Operating Voltage:300 V

PACKAGE: 100, 500, 1000 mt







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



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)

TEMPERATURE RANGE

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

-5° C up to +50°C



CHARACTERISTICS

Coaxial Cable



Min. Bending Radius 8 x cable diameter





RG 213 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

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

CPR CLASSIFICATION

EN 50575:2016 - E

ELECTRICAL DATA

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

Impedance:50 OhmCapacitance:100 pF/mVelocity of Propagation:66%Operating Voltage:300 V

PACKAGE: 100, 500, 1000 mt







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



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)

TEMPERATURE RANGE

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

-5° C up to +50°C



CHARACTERISTICS

Coaxial Cable



Min. Bending Radius 8 x cable diameter





RG 214 U 50 Ω

Standard Version

RAMCRO CODE	OUTER Diameter [mm]	WEIGHT [kg/km]
RG 214	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

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

CPR CLASSIFICATION

EN 50575:2016 - E

ELECTRICAL DATA

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

Impedance:75 OhmCapacitance:66 pF/mVelocity of Propagation:66%Operating Voltage:300 V

PACKAGE: 100, 500, 1000 mt







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



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)

TEMPERATURE RANGE

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



CHARACTERISTICS

Coaxial Cable



Min. Bending Radius 8 x cable diameter





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

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

CPR CLASSIFICATION

EN 50575:2016 - E

ELECTRICAL DATA

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

Impedance: 50 Ohm
Capacitance: 100 pF/m
Velocity of Propagation: 66%
Operating Voltage: 300 V

PACKAGE: 100, 500, 1000 mt







These cables can be installed along with power cables marked $450/750\,\mathrm{V}$ or $0.6/1\,\mathrm{kV}$ operating with systems having maximum voltage to ground $400\,\mathrm{V}$ AC



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)

TEMPERATURE RANGE

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



CHARACTERISTICS

Coaxial Cable



Min. Bending Radius 8 x cable diameter





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

RG 11 B/U 75 Ω Standard Version





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

CPR CLASSIFICATION

EN 50575:2016 - E_{CA}

ELECTRICAL DATA

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

Impedance: 50 Ohm
Capacitance: 100 pF/m
Velocity of Propagation: 66%
Operating Voltage: 300 V

PACKAGE: 100, 500, 1000 mt







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



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)

TEMPERATURE RANGE

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



CHARACTERISTICS

Coaxial Cable



Min. Bending Radius 8 x cable diameter





RG 11 B/U 75 Ω Standard Version

RAMCRO CODE	OUTER Diameter [mm]	WEIGHT [kg/km]
RG 11	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

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

CPR CLASSIFICATION

EN 50575:2016 - ECA

ELECTRICAL DATA

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

Impedance:93 OhmCapacitance:100 pF/mVelocity of Propagation:66%Operating Voltage:300 V

PACKAGE: 100, 500, 1000 mt







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



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)

TEMPERATURE RANGE

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



CHARACTERISTICS

Coaxial Cable



Min. Bending Radius 8 x cable diameter





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

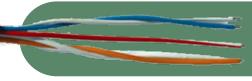




TRR

Standard Version





CONSTRUCTION

Formation:

Tinned Copper Claded Aluminium, Solid

Insulation:

Polyvinyl chloride - PVC

Rip Cord:

Nylon rip cord

Collective Screen

AI/PET (Aluminium/Polyester Tape) with tinned copper drain wire

Outher Sheath:

Polyvinyl chloride - PVC

Colour Outher Sheath:

Grey

IDENTIFICATION OF CORES

In according to CEI UNEL 00724

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

PACKAGE: 100, 500, 1000 mt







STANDARD REFERENCES

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

CPR CLASSIFICATION

EN 50575:2016 - ECA

TEMPERATURE RANGE

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



CHARACTERISTICS

Telephone Cable



Min. Bending Radius 8 x cable diameter



Fixed Laying



TRR

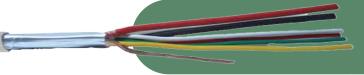
Standard Version

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

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

IDENTIFICATION OF CORES

In according to CEI UNEL 00724

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

PACKAGE: 100, 500, 1000 mt







STANDARD REFERENCES

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

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



CHARACTERISTICS

Telephone Cable



Min. Bending Radius 8 x cable diameter



Fixed Laying



TRHR

Standard Version

RAMCRO CODE	FORMATION [n° x mm2]	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



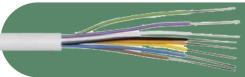


ACCESS & CONTROL CABLE

VCS

Standard Version





CONSTRUCTION

Formation:

Copper Claded Aluminium - CCA, Mul

Insulation:

Polyvinyl chloride - PVC

Rip Cord:

Nylon rip cord

Outher Sheath:

Polyvinyl chloride - PVC
Colour Outher Sheath:

Grey

ON REQUEST

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

IDENTIFICATION OF CORES

In according to CEI UNEL 00724

STANDARD REFERENCES

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

CPR CLASSIFICATION

EN 50575:2016 - ECA

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: 100, 500, 1000 mt







ACCESS & CONTROL CABLE

VCS Standard Version

RAMCRO CODE	FORMATION [n° x mm2]	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







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