

Product Name

RAMCRO - BMS-HFFR-BC-Screed Cable
For standard applications, flame retardant.

Multi-Core, Mica-XLPE+Silicon Rubber-Insulation,
Collective Screen, LSZH-Sheath

Product Code

SAS0205HXEDH-RB



APPLICATION

LSZH - FRNC sheathed multi-conductor cables are suitable for Building Management Systems (BMS), Sound, Audio, Security, Safety, Control and Instrumentation.

CONSTRUCTION

2x2,5 mm²

Formation	2 Cores	Unit	Nominal Value
Section	18 AWG		
Conductor	Plain annealed copper wire, 7 strand	mm	1,1
Insulation	Polyolephine	mm	1,5
Colour Code	Black, Red		
Individual Screen	N.A.		
Wrapping	at least 1 layer of plastic tape 0,023 mm		
Collective Screen	0,026 mm Aluminium / PETP tape over tinned copper drain wire		
Inner Sheath	N.A.		
Inner Sheath	N.A.		
Outer Sheath	Thermoplastic Low Smoke, Halogen Free - LSZH (FRNC) - Purple RAL 4005	mm	4,4
Cable Printing	RAMCRO ITALY R1721 AUDIO CONTROL & INSTRUMENTATION CABLE 2C 18AWG SCREENED LSZH (FRNC) 300 V 75 C IEC 60332-1/UL 1581 - SAS0205HXEDH-RB - "PROD.WEEK/18" + BATCH + METER MARKING		

TECHNICAL DATA & STANDARD REFERENCES

Fire Propagation:

Test on single cable: IEC 60332-1

Test on bunched cables: IEC 60332-3

Type of Cable:

BMS-HFFR-BC-Screed Cable

Low Voltage Directive:

2014/35/UE

Other References:

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Limiting Oxygen Index (LOI):

(min 37%)

Smoke Density:

IEC 61034

Amount of halogen acid gas:

IEC 60754-1 (max 0,5%)

Acidity (ph value) and conductivity:

IEC 60754-2

Sunlight resistance:

UL 1581 section 1200

ELECTRICAL & MECHANICAL DATA

Conductor Cross-section	Nom.	18 AWG	Temperature Range:		
DC Resistance per core at 20° C	max Ω/km	23,8	During Operation	°C	-30°C up to 80°C
Insulation Resistance at 20° C	min MΩ*km	1000	During Installation	°C	-30°C up to 80°C
Mutual Capacitance	max pF/m	150			
Inductance	max mH/km	1	Min. Bending Radius	mm	8 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension	N	78
Test Voltage - Core/Screen	V	2000	Weight Approx	kg/km	29
Operating Voltage	V	300	Put up length	mt	305

Product Name

RAMCRO - BMS-HFFR-BC-Screed Cable
For standard applications, flame retardant.

Multicore, PO-Insulation, Collective Screened,
LSZH/FRNC-Sheath

Product Code

SAS0405HXEDX-RB



APPLICATION

LSZH - FRNC sheathed multi-conductor cables are suitable for Building Management Systems (BMS), Sound, Audio, Security, Safety, Control and Instrumentation.

CONSTRUCTION

2x2,5 mm2

Formation	4 Cores	Unit	Nominal Value
Section	18 AWG		
Conductor	Plain annealed copper wire, 7 strand	mm	1,1
Insulation	Polyolephine	mm	1,5
Colour Code	Black, Red, White, Green		
Individual Screen	N.A.		
Wrapping	at least 1 layer of plastic tape 0,023 mm		
Collective Screen	0,026 mm Aluminium / PETP tape over tinned copper drain wire		
Inner Sheath	N.A.		
Inner Sheath	N.A.		
Outer Sheath	Thermoplastic Low Smoke, Halogen Free - LSZH (FRNC) - Purple RAL 4005	mm	5,1
Cable Printing	RAMCRO ITALY R1725 AUDIO CONTROL & INSTRUMENTATION CABLE 4C 18AWG SCREENED LSZH (FRNC) 300 V 75 C IEC 60332-1/UL 1581 -SAS0405HXEDX-RB- "PROD.WEEK/18" + BATCH + METER MARKING		

TECHNICAL DATA & STANDARD REFERENCES

Fire Propagation:

Test on single cable: IEC 60332-1

Test on bunched cables: IEC 60332-3

Type of Cable:

BMS-HFFR-BC-Screed Cable

Low Voltage Directive:

2014/35/UE

Other References:

-

Limiting Oxygen Index (LOI):

(min 37%)

Smoke Density:

IEC 61034

Amount of halogen acid gas:

IEC 60754-1 (max 0,5%)

Acidity (ph value) and conductivity:

IEC 60754-2

Sunlight resistance:

UL 1581 section 1200

ELECTRICAL & MECHANICAL DATA

Conductor Cross-section	Nom.	18 AWG	Temperature Range:		
DC Resistance per core at 20° C	max Ω /km	23,8	During Operation	°C	-30°C up to 80°C
Insulation Resistance at 20° C	min M Ω *km	1000	During Installation	°C	-30°C up to 80°C
Mutual Capacitance	max pF/m	150			
Inductance	max mH/km	1	Min. Bending Radius	mm	8 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension	N	156
Test Voltage - Core/Screen	V	2000	Weight Approx	kg/km	49
Operating Voltage	V	300	Put up length	mt	305

Product Name

RAMCRO - BMS-HFFR-BC-Screed Cable
For standard applications, flame retardant.

Multicore, PO-Insulation, Collective Screened,
LSZH/FRNC-Sheath

Product Code

SAS0605HXEDX-RB



APPLICATION

LSZH - FRNC sheathed multi-conductor cables are suitable for Building Management Systems (BMS), Sound, Audio, Security, Safety, Control and Instrumentation.

CONSTRUCTION

2x2,5 mm2

Formation	6 Cores	Unit	Nominal Value
Section	18 AWG		
Conductor	Plain annealed copper wire, 7 strand	mm	1,1
Insulation	Polyolephine	mm	1,5
Colour Code	Black, Red, White, Green		
Individual Screen	N.A.		
Wrapping	at least 1 layer of plastic tape 0,023 mm		
Collective Screen	0,026 mm Aluminium / PETP tape over tinned copper drain wire		
Inner Sheath	N.A.		
Inner Sheath	N.A.		
Outer Sheath	Thermoplastic Low Smoke, Halogen Free - LSZH (FRNC) - Purple RAL 4005	mm	5,8
Cable Printing	RAMCRO ITALY R1727 AUDIO CONTROL & INSTRUMENTATION CABLE 6C 18AWG SCREENED LSZH (FRNC) 300 V 75 C IEC 60332-1/UL 1581 -SAS0605HXEDX-RB- "PROD.WEEK/20" + BATCH + METER MARKING		

TECHNICAL DATA & STANDARD REFERENCES

Fire Propagation:

Test on single cable: IEC 60332-1

Test on bunched cables: IEC 60332-3

Type of Cable:

BMS-HFFR-BC-Screed Cable

Low Voltage Directive:

2014/35/UE

Other References:

-

Limiting Oxygen Index (LOI):

(min 37%)

Smoke Density:

IEC 61034

Amount of halogen acid gas:

IEC 60754-1 (max 0,5%)

Acidity (ph value) and conductivity:

IEC 60754-2

Sunlight resistance:

UL 1581 section 1200

ELECTRICAL & MECHANICAL DATA

Conductor Cross-section	Nom.	18 AWG	Temperature Range:		
DC Resistance per core at 20° C	max Ω/km	23,8	During Operation	°C	-30°C up to 80°C
Insulation Resistance at 20° C	min MΩ*km	1000	During Installation	°C	-30°C up to 80°C
Mutual Capacitance	max pF/m	150			
Inductance	max mH/km	1	Min. Bending Radius	mm	8 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension	N	158
Test Voltage - Core/Screen	V	2000	Weight Approx	kg/km	67
Operating Voltage	V	300	Put up length	mt	305

Product Name

RAMCRO - BMS-HFFR-BC-Screed Cable
For standard applications, flame retardant.

Multicore, PO-Insulation, Collective Screened,
LSZH/FRNC-Sheath

Product Code

SAS0207HXEDH-RB



APPLICATION

LSZH - FRNC sheathed multi-conductor cables are suitable for Building Management Systems (BMS), Sound, Audio, Security, Safety, Control and Instrumentation.

CONSTRUCTION

2x2,5 mm2

Formation	2 Cores	Unit	Nominal Value
Section	22 AWG		
Conductor	Plain annealed copper wire, 7 strand	mm	0,7
Insulation	Polyolephine	mm	1,2
Colour Code	Black, Red		
Individual Screen	N.A.		
Wrapping	at least 1 layer of plastic tape 0,023 mm		
Collective Screen	0,026 mm Aluminium / PETP tape over tinned copper drain wire		
Inner Sheath	N.A.		
Inner Sheath	N.A.		
Outer Sheath	Thermoplastic Low Smoke, Halogen Free - LSZH (FRNC) - Purple RAL 4005	mm	3,7
Cable Printing	RAMCRO ITALY R1741 AUDIO CONTROL & INSTRUMENTATION CABLE 2C 22AWG SCREENED LSZH (FRNC) 300 V 75 C IEC 60332-1/UL 1581 -SAS0207HXEDH-RB- "PROD.WEEK/18" + BATCH + METER MARKING		

TECHNICAL DATA & STANDARD REFERENCES

Fire Propagation:

Test on single cable: IEC 60332-1

Test on bunched cables: IEC 60332-3

Type of Cable:

BMS-HFFR-BC-Screed Cable

Low Voltage Directive:

2014/35/UE

Other References:

-

Limiting Oxygen Index (LOI):

(min 37%)

Smoke Density:

IEC 61034

Amount of halogen acid gas:

IEC 60754-1 (max 0,5%)

Acidity (ph value) and conductivity:

IEC 60754-2

Sunlight resistance:

UL 1581 section 1200

ELECTRICAL & MECHANICAL DATA

Conductor Cross-section	Nom.	22 AWG
DC Resistance per core at 20° C	max Ω/km	57,4
Insulation Resistance at 20° C	min MΩ*km	1000
Mutual Capacitance	max pF/m	115
Inductance	max mH/km	1
Test Voltage - Core/Core	V	2000
Test Voltage - Core/Screen	V	2000

Temperature Range:

During Operation °C -30°C up to 80°C

During Installation °C -30°C up to 80°C

Min. Bending Radius mm 8 x cable diameter

Max Pulling Tension N 32

Weight Approx kg/km 18

Operating Voltage V 300

Put up length mt 305

Product Name

RAMCRO - BMS-HFFR-BC-Screed Cable
For standard applications, flame retardant.

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Product Code

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APPLICATION

LSZH - FRNC sheathed multi-conductor cables are suitable for Building Management Systems (BMS), Sound, Audio, Security, Safety, Control and Instrumentation.

CONSTRUCTION

2x2,5 mm2

Formation	4 Cores	Unit	Nominal Value
Section	22 AWG		
Conductor	Plain annealed copper wire, 7 strand	mm	0,7
Insulation	Polyolephine	mm	1,2
Colour Code	Black, Red, White, Green		
Individual Screen	N.A.		
Wrapping	at least 1 layer of plastic tape 0,023 mm		
Collective Screen	0,026 mm Aluminium / PETP tape over tinned copper drain wire		
Inner Sheath	N.A.		
Inner Sheath	N.A.		
Outer Sheath	Thermoplastic Low Smoke, Halogen Free - LSZH (FRNC) - Purple RAL 4005	mm	4,7
Cable Printing	RAMCRO ITALY R1745 AUDIO CONTROL & INSTRUMENTATION CABLE 4C 22AWG SCREENED LSZH (FRNC) 300 V 75 C IEC 60332-1/UL 1581 - SAS0407HXEDX-RB - "PROD.WEEK/20" + BATCH + METER MARKING		

TECHNICAL DATA & STANDARD REFERENCES

Fire Propagation:

Test on single cable:	IEC 60332-1
Test on bunched cables:	IEC 60332-3

Type of Cable:	BMS-HFFR-BC-Screed Cable
Low Voltage Directive:	2014/35/UE
Other References:	-

Limiting Oxygen Index (LOI):	(min 37%)
Smoke Density:	IEC 61034
Amount of halogen acid gas:	IEC 60754-1 (max 0,5%)
Acidity (ph value) and conductivity:	IEC 60754-2
Sunlight resistance:	UL 1581 section 1200

ELECTRICAL & MECHANICAL DATA

Conductor Cross-section	Nom.	22 AWG	Temperature Range:		
DC Resistance per core at 20° C	max Ω/km	57,4	During Operation	°C	-30°C up to 80°C
Insulation Resistance at 20° C	min MΩ*km	1000	During Installation	°C	-30°C up to 80°C
Mutual Capacitance	max pF/m	115			
Inductance	max mH/km	1	Min. Bending Radius	mm	8 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension	N	63
Test Voltage - Core/Screen	V	2000	Weight Approx	kg/km	31
Operating Voltage	V	300	Put up length	mt	305

Product Name

RAMCRO - BMS-HFFR-BC-Screed Cable
For standard applications, flame retardant.

Multicore, PO-Insulation, Collective Screened,
LSZH/FRNC-Sheath

Product Code

SAS0607HXEDX-RB



APPLICATION

LSZH - FRNC sheathed multi-conductor cables are suitable for Building Management Systems (BMS), Sound, Audio, Security, Safety, Control and Instrumentation.

CONSTRUCTION

2x2,5 mm2

Formation	6 Cores	Unit	Nominal Value
Section	22 AWG		
Conductor	Plain annealed copper wire, 7 strand	mm	0,7
Insulation	Polyolephine	mm	1,2
Colour Code	Black, Red, White, Green, Brown, Blue		
Individual Screen	N.A.		
Wrapping	at least 1 layer of plastic tape 0,023 mm		
Collective Screen	0,026 mm Aluminium / PETP tape over tinned copper drain wire		
Inner Sheath	N.A.		
Inner Sheath	N.A.		
Outer Sheath	Thermoplastic Low Smoke, Halogen Free - LSZH (FRNC) - Purple RAL 4005	mm	4,9
Cable Printing	RAMCRO ITALY R1747 AUDIO CONTROL & INSTRUMENTATION CABLE 6C 22AWG SCREENED LSZH (FRNC) 300 V 75 C IEC 60332-1/UL 1581 - SAS0607HXEDX-RB - "PROD.WEEK/20" + BATCH + METER MARKING		

TECHNICAL DATA & STANDARD REFERENCES

Fire Propagation:

Test on single cable:	IEC 60332-1
Test on bunched cables:	IEC 60332-3

Type of Cable:	BMS-HFFR-BC-Screed Cable
Low Voltage Directive:	2014/35/UE
Other References:	-

Limiting Oxygen Index (LOI):	(min 37%)
Smoke Density:	IEC 61034
Amount of halogen acid gas:	IEC 60754-1 (max 0,5%)
Acidity (ph value) and conductivity:	IEC 60754-2
Sunlight resistance:	UL 1581 section 1200

ELECTRICAL & MECHANICAL DATA

Conductor Cross-section	Nom.	22 AWG	Temperature Range:		
DC Resistance per core at 20° C	max Ω/km	57,4	During Operation	°C	-30°C up to 80°C
Insulation Resistance at 20° C	min MΩ*km	1000	During Installation	°C	-30°C up to 80°C
Mutual Capacitance	max pF/m	115			
Inductance	max mH/km	1	Min. Bending Radius	mm	8 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension	N	95
Test Voltage - Core/Screen	V	2000	Weight Approx	kg/km	42
Operating Voltage	V	300	Put up length	mt	305