

Product Name

**RAMCROil - INSTRUMENTATION
Cable EN 50288-7 - 300 V**

Multi-Core, XLPE-Insulation, Collective
Screen, Hi-Performance PVC-Sheath

Product Code

SAS0215HEOWD-RE3TS



APPLICATION

These cables are designed to connect electrical instrument circuits and provide communication services in and around process plant (e.g. petrochemical industry etc.). Not suitable for direct buried application

CONSTRUCTION

2x1.5 mm2

		Unit	Nominal Value
Formation	2 Cores		
Section	1.5 mm2		
Conductor	Plain annealed copper wire, 7 strand	mm	1.5
Insulation	Cross Linked Polyolefine	mm	2.1
Colour Code	Black Numbered		
Individual Screen	N.A.		
Wrapping	at least 1 layer of plastic tape + interstitial Fillers (IEC/EN 60079-14)		
Collective Screen	0,026 mm Aluminium / PETP tape over tinned copper drain wire		
Inner Sheath	N.A.		
Inner Sheath	N.A.		
Outer Sheath	High Performance Polyvinyl chloride - Hi-PVC - Black	mm	6.2
Cable Printing	<meterMarking> RAMCRO <year> - RE-2X(St)Yw - 2x1.5 mm2 - 300V - EN 50288-7 IEC 60332-3 - IEC 60332-1 MADE IN ITALY <batch>		

TECHNICAL DATA & STANDARD REFERENCES

Fire Propagation:

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

Limiting Oxygen Index (LOI):	(min 30%)
Smoke Density:	IEC 61034
Amount of halogen acid gas:	IEC 60754-1 (max 1,3%)
Acidity (ph value) and conductivity:	IEC 60754-2
Sunlight resistance:	UL 1581 section 1200
Notes:	-- CU 33.53 kg/km

Construction Reference Standard:

Type of Cable:	EN 50288-7 - 300 V Instrumentation Cable
Low Voltage Directive:	2014/35/UE
Other References:	IEC/EN 60079-14 ANNEX E - IEC 60228 - IEC 60332-1 - IEC 60332-3-24 - NF C 32-020

ELECTRICAL & MECHANICAL DATA

Conductor Cross-section	Nom.	1.5 mm2	Temperature Range:		
DC Resistance per core at 20° C	max Ω/km	12.3	During Installation	°C	-5° C up to +50°C
Insulation Resistance at 20° C	min MΩ*km	1000	Fixed Installation	°C	-30° C up to +80°C
Mutual Capacitance	max nF/km	150	Insulation Operation	°C	-30° C up to +80°C
Inductance	max mH/km	1	Min. Bending Radius	mm	8 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension	N	143
Test Voltage - Core/Screen	V	2000	Weight Approx	kg/km	69
L/R Ratio	max μH/Ω	40			
Operating Voltage	V	300			

Product Name

RAMCROil - INSTRUMENTATION Cable
EN 50288-7 300V

Multi-Core, XLPE-Insulation, Collective
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SAS0315HEOWD-RE3TS


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These cables are designed to connect electrical instrument circuits and provide communication services in and around process plant (e.g. petrochemical industry etc.). Not suitable for direct buried application

CONSTRUCTION

3x1.5 mm2

Formation	3 Cores	Unit	Nominal Value
Section	1.5 mm2		
Conductor	Plain annealed copper wire, 7 strand	mm	1.5
Insulation	Cross Linked Polyolefine	mm	2.1
Colour Code	Black Numbered		
Individual Screen	N.A.		
Wrapping	at least 1 layer of plastic tape + interstitial Fillers (IEC/EN 60079-14)		
Collective Screen	0,026 mm Aluminium / PETP tape over tinned copper drain wire		
Inner Sheath	N.A.		
Inner Sheath	N.A.		
Outer Sheath	High Performance Polyvinyl chloride - Hi-PVC - Black	mm	6.3
Cable Printing	<meterMarking> RAMCRO <year> - RE-2X(St)Yw - 3x1.5 mm2 - 300V - EN 50288-7 IEC 60332-3 - IEC 60332-1 MADE IN ITALY <batch>		

TECHNICAL DATA & STANDARD REFERENCES

Fire Propagation:

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

Construction Reference Standard:

Type of Cable:	EN 50288-7 - 300 V Instrumentation Cable
Low Voltage Directive:	2014/35/UE
Other References:	IEC/EN 60079-14 ANNEX E - IEC 60228 - IEC 60332-1 - IEC 60332-3-24 - NF C 32-020

Limiting Oxygen Index (LOI):	(min 30%)
Smoke Density:	IEC 61034
Amount of halogen acid gas:	IEC 60754-1 (max 1,3%)
Acidity (ph value) and conductivity:	IEC 60754-2
Sunlight resistance:	UL 1581 section 1200
Notes:	-- CU 49.61 kg/km

ELECTRICAL & MECHANICAL DATA

Conductor Cross-section	Nom.	1.5 mm2	Temperature Range:		
DC Resistance per core at 20° C	max Ω/km	12.3	During Installation	°C	-5° C up to +50°C
Insulation Resistance at 20° C	min MΩ*km	1000	Fixed Installation	°C	-30° C up to +80°C
Mutual Capacitance	max nF/km	150	Insulation Operation	°C	-30° C up to +90°C
Inductance	max mH/km	1	Min. Bending Radius	mm	8 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension	N	214
Test Voltage - Core/Screen	V	2000	Weight Approx	kg/km	89
L/R Ratio	max μH/Ω	40			
Operating Voltage	V	300			

Product Name

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CONSTRUCTION

4x1.5 mm2

Formation	4 Cores	Unit	Nominal Value
Section	1.5 mm2		
Conductor	Plain annealed copper wire, 7 strand	mm	1.5
Insulation	Cross Linked Polyolefine	mm	2.1
Colour Code	Black Numbered		
Individual Screen	N.A.		
Wrapping	at least 1 layer of plastic tape + interstitial Fillers (IEC/EN 60079-14)		
Collective Screen	0,026 mm Aluminium / PETP tape over tinned copper drain wire		
Inner Sheath	N.A.		
Inner Sheath	N.A.		
Outer Sheath	High Performance Polyvinyl chloride - Hi-PVC - Black	mm	6.9
Cable Printing	<meterMarking> RAMCRO <year> - RE-2X(St)Yw - 4x1.5 mm2 - 300V - EN 50288-7 IEC 60332-3 - IEC 60332-1 MADE IN ITALY <batch>		

TECHNICAL DATA & STANDARD REFERENCES

Fire Propagation:

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

Construction Reference Standard:

Type of Cable:	EN 50288-7 - 300 V Instrumentation Cable
Low Voltage Directive:	2014/35/UE
Other References:	IEC/EN 60079-14 ANNEX E - IEC 60228 - IEC 60332-1 - IEC 60332-3-24 - NF C 32-020

Limiting Oxygen Index (LOI):	(min 30%)
Smoke Density:	IEC 61034
Amount of halogen acid gas:	IEC 60754-1 (max 1,3%)
Acidity (ph value) and conductivity:	IEC 60754-2
Sunlight resistance:	UL 1581 section 1200
Notes:	-- CU 65.68 kg/km

ELECTRICAL & MECHANICAL DATA

Conductor Cross-section	Nom.	1.5 mm2	Temperature Range:		
DC Resistance per core at 20° C	max Ω/km	12.3	During Installation	°C	-5° C up to +50°C
Insulation Resistance at 20° C	min MΩ*km	1000	Fixed Installation	°C	-30° C up to +80°C
Mutual Capacitance	max nF/km	150	Insulation Operation	°C	-30° C up to +90°C
Inductance	max mH/km	1	Min. Bending Radius	mm	8 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension	N	286
Test Voltage - Core/Screen	V	2000	Weight Approx	kg/km	112
L/R Ratio	max μH/Ω	40			
Operating Voltage	V	300			

Product Name

RAMCROil - INSTRUMENTATION Cable
EN 50288-7 - 300 V

Multi-Core, XLPE-Insulation, Collective
Screen, Hi-Performance PVC-Sheath

Product Code

SAS0515HEOWD-RE3TS



APPLICATION

These cables are designed to connect electrical instrument circuits and provide communication services in and around process plant (e.g. petrochemical industry etc.). Not suitable for direct buried application

CONSTRUCTION

5x1.5 mm2

Formation	5 Cores	Unit	Nominal Value
Section	1.5 mm2		
Conductor	Plain annealed copper wire, 7 strand	mm	1.5
Insulation	Cross Linked Polyolefine	mm	2.1
Colour Code	Black Numbered		
Individual Screen	N.A.		
Wrapping	at least 1 layer of plastic tape + interstitial Fillers (IEC/EN 60079-14)		
Collective Screen	0,026 mm Aluminium / PETP tape over tinned copper drain wire		
Inner Sheath	N.A.		
Inner Sheath	N.A.		
Outer Sheath	High Performance Polyvinyl chloride - Hi-PVC - Black	mm	7.5
Cable Printing	<meterMarking> RAMCRO <year> - RE-2X(St)Yw - 5x1.5 mm2 - 300V - EN 50288-7 IEC 60332-3 - IEC 60332-1 MADE IN ITALY <batch>		

TECHNICAL DATA & STANDARD REFERENCES

Fire Propagation:

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

Limiting Oxygen Index (LOI):	(min 30%)
Smoke Density:	IEC 61034
Amount of halogen acid gas:	IEC 60754-1 (max 1,3%)
Acidity (ph value) and conductivity:	IEC 60754-2
Sunlight resistance:	UL 1581 section 1200
Notes:	-- CU 81.76 kg/km

Construction Reference Standard:

Type of Cable:	EN 50288-7 - 300 V Instrumentation Cable
Low Voltage Directive:	2014/35/UE
Other References:	IEC/EN 60079-14 ANNEX E - IEC 60228 - IEC 60332-1 - IEC 60332-3-24 - NF C 32-020

ELECTRICAL & MECHANICAL DATA

Conductor Cross-section	Nom.	1.5 mm2	Temperature Range:		
DC Resistance per core at 20° C	max Ω/km	12.3	During Installation	°C	-5° C up to +50°C
Insulation Resistance at 20° C	min MΩ*km	1000	Fixed Installation	°C	-30° C up to +80°C
Mutual Capacitance	max nF/km	150	Insulation Operation	°C	-30° C up to +90°C
Inductance	max mH/km	1	Min. Bending Radius	mm	8 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension	N	357
Test Voltage - Core/Screen	V	2000	Weight Approx	kg/km	135
L/R Ratio	max μH/Ω	40			
Operating Voltage	V	300			

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RAMCROil - INSTRUMENTATION Cable
EN 50288-7 - 300 V

Multi-Core, XLPE-Insulation, Collective
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SAS0615HEOWD-RE3TS


APPLICATION

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CONSTRUCTION

6x1.5 mm2

Formation	6 Cores	Unit	Nominal Value
Section	1.5 mm2		
Conductor	Plain annealed copper wire, 7 strand	mm	1.5
Insulation	Cross Linked Polyolefine	mm	2.1
Colour Code	Black Numbered		
Individual Screen	N.A.		
Wrapping	at least 1 layer of plastic tape + interstitial Fillers (IEC/EN 60079-14)		
Collective Screen	0,026 mm Aluminium / PETP tape over tinned copper drain wire		
Inner Sheath	N.A.		
Inner Sheath	N.A.		
Outer Sheath	High Performance Polyvinyl chloride - Hi-PVC - Black	mm	8.2
Cable Printing	<meterMarking> RAMCRO <year> - RE-2X(St)Yw - 6x1.5 mm2 - 300V - EN 50288-7 IEC 60332-3 - IEC 60332-1 MADE IN ITALY <batch>		

TECHNICAL DATA & STANDARD REFERENCES

Fire Propagation:

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

Construction Reference Standard:

Type of Cable:	EN 50288-7 - 300 V Instrumentation Cable
Low Voltage Directive:	2014/35/UE
Other References:	IEC/EN 60079-14 ANNEX E - IEC 60228 - IEC 60332-1 - IEC 60332-3-24 - NF C 32-020

Limiting Oxygen Index (LOI):	(min 30%)
Smoke Density:	IEC 61034
Amount of halogen acid gas:	IEC 60754-1 (max 1,3%)
Acidity (ph value) and conductivity:	IEC 60754-2
Sunlight resistance:	UL 1581 section 1200
Notes:	-- CU 97.83 kg/km

ELECTRICAL & MECHANICAL DATA

Conductor Cross-section	Nom.	1.5 mm2	Temperature Range:		
DC Resistance per core at 20° C	max Ω/km	12.3	During Installation	°C	-5° C up to +50°C
Insulation Resistance at 20° C	min MΩ*km	1000	Fixed Installation	°C	-30° C up to +80°C
Mutual Capacitance	max nF/km	150	Insulation Operation	°C	-30° C up to +90°C
Inductance	max mH/km	1	Min. Bending Radius	mm	8 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension	N	429
Test Voltage - Core/Screen	V	2000	Weight Approx	kg/km	158
L/R Ratio	max μH/Ω	40			
Operating Voltage	V	300			

Product Name

RAMCROil - INSTRUMENTATION Cable
EN 50288-7 - 300 V

Multi-Core, XLPE-Insulation, Collective
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SAS0815HEOWD-RE3TS


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CONSTRUCTION

8x1.5 mm2

Formation	8 Cores	Unit	Nominal Value
Section	1.5 mm2		
Conductor	Plain annealed copper wire, 7 strand	mm	1.5
Insulation	Cross Linked Polyolefine	mm	2.1
Colour Code	Black Numbered		
Individual Screen	N.A.		
Wrapping	at least 1 layer of plastic tape + interstitial Fillers (IEC/EN 60079-14)		
Collective Screen	0,026 mm Aluminium / PETP tape over tinned copper drain wire		
Inner Sheath	N.A.		
Inner Sheath	N.A.		
Outer Sheath	High Performance Polyvinyl chloride - Hi-PVC - Black	mm	9.0
Cable Printing	<meterMarking> RAMCRO <year> - RE-2X(St)Yw - 8x1.5 mm2 - 300V - EN 50288-7 IEC 60332-3 - IEC 60332-1 MADE IN ITALY <batch>		

TECHNICAL DATA & STANDARD REFERENCES

Fire Propagation:

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

Limiting Oxygen Index (LOI):	(min 30%)
Smoke Density:	IEC 61034
Amount of halogen acid gas:	IEC 60754-1 (max 1,3%)
Acidity (ph value) and conductivity:	IEC 60754-2
Sunlight resistance:	UL 1581 section 1200
Notes:	-- CU 129.99 kg/km

Construction Reference Standard:

Type of Cable:	EN 50288-7 - 300 V Instrumentation Cable
Low Voltage Directive:	2014/35/UE
Other References:	IEC/EN 60079-14 ANNEX E - IEC 60228 - IEC 60332-1 - IEC 60332-3-24 - NF C 32-020

ELECTRICAL & MECHANICAL DATA

Conductor Cross-section	Nom.	1.5 mm2	Temperature Range:		
DC Resistance per core at 20° C	max Ω/km	12.3	During Installation	°C	-5° C up to +50°C
Insulation Resistance at 20° C	min MΩ*km	1000	Fixed Installation	°C	-30° C up to +80°C
Mutual Capacitance	max nF/km	150	Insulation Operation	°C	-30° C up to +90°C
Inductance	max mH/km	1	Min. Bending Radius	mm	8 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension	N	572
Test Voltage - Core/Screen	V	2000	Weight Approx	kg/km	202
L/R Ratio	max μH/Ω	40			
Operating Voltage	V	300			

Product Name

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CONSTRUCTION

10x1.5 mm2

Formation	10 Cores	Unit	Nominal Value
Section	1.5 mm2		
Conductor	Plain annealed copper wire, 7 strand	mm	1.5
Insulation	Cross Linked Polyolefine	mm	2.1
Colour Code	Black Numbered		
Individual Screen	N.A.		
Wrapping	at least 1 layer of plastic tape + interstitial Fillers (IEC/EN 60079-14)		
Collective Screen	0,026 mm Aluminium / PETP tape over tinned copper drain wire		
Inner Sheath	N.A.		
Inner Sheath	N.A.		
Outer Sheath	High Performance Polyvinyl chloride - Hi-PVC - Black	mm	10.3
Cable Printing	<meterMarking> RAMCRO <year> - RE-2X(St)Yw - 10x1.5 mm2 - 300V - EN 50288-7 IEC 60332-3 - IEC 60332-1 MADE IN ITALY <batch>		

TECHNICAL DATA & STANDARD REFERENCES

Fire Propagation:		Construction Reference Standard:	EN 50288-7 - 300 V
Test on single cable:	IEC 60332-1	Type of Cable:	Instrumentation Cable
Test on bunched cables:	IEC 60332-3	Low Voltage Directive:	2014/35/UE
Limiting Oxygen Index (LOI):	(min 30%)	Other References:	IEC/EN 60079-14 ANNEX E
Smoke Density:	IEC 61034		- IEC 60228
Amount of halogen acid gas:	IEC 60754-1 (max 1,3%)		- IEC 60332-1
Acidity (ph value) and conductivity:	IEC 60754-2		- IEC 60332-3-24
Sunlight resistance:	UL 1581 section 1200		- NF C 32-020
Notes:	-- CU 162.14 kg/km		

ELECTRICAL & MECHANICAL DATA

Conductor Cross-section	Nom.	1.5 mm2	Temperature Range:	
DC Resistance per core at 20° C	max Ω/km	12.3	During Installation	°C -5° C up to +50°C
Insulation Resistance at 20° C	min MΩ*km	1000	Fixed Installation	°C -30° C up to +80°C
Mutual Capacitance	max nF/km	150	Insulation Operation	°C -30° C up to +90°C
Inductance	max mH/km	1	Min. Bending Radius	mm 8 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension	N 715
Test Voltage - Core/Screen	V	2000	Weight Approx	kg/km 251
L/R Ratio	max μH/Ω	40		
Operating Voltage	V	300		

Product Name

RAMCROil - INSTRUMENTATION Cable
EN 50288-7 - 300 V

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CONSTRUCTION

12x1.5 mm2

Formation	12 Cores	Unit	Nominal Value
Section	1.5 mm2		
Conductor	Plain annealed copper wire, 7 strand	mm	1.5
Insulation	Cross Linked Polyolefine	mm	2.1
Colour Code	Black Numbered		
Individual Screen	N.A.		
Wrapping	at least 1 layer of plastic tape + interstitial Fillers (IEC/EN 60079-14)		
Collective Screen	0,026 mm Aluminium / PETP tape over tinned copper drain wire		
Inner Sheath	N.A.		
Inner Sheath	N.A.		
Outer Sheath	High Performance Polyvinyl chloride - Hi-PVC - Black	mm	10.7
Cable Printing	<meterMarking> RAMCRO <year> - RE-2X(St)Yw - 12x1.5 mm2 - 300V - EN 50288-7 IEC 60332-3 - IEC 60332-1 MADE IN ITALY <batch>		

TECHNICAL DATA & STANDARD REFERENCES

Fire Propagation:

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

Construction Reference Standard:

Type of Cable:	EN 50288-7 - 300 V Instrumentation Cable
Low Voltage Directive:	2014/35/UE
Other References:	IEC/EN 60079-14 ANNEX E - IEC 60228 - IEC 60332-1 - IEC 60332-3-24 - NF C 32-020

Limiting Oxygen Index (LOI):	(min 30%)
Smoke Density:	IEC 61034
Amount of halogen acid gas:	IEC 60754-1 (max 1,3%)
Acidity (ph value) and conductivity:	IEC 60754-2
Sunlight resistance:	UL 1581 section 1200
Notes:	-- CU 194.29 kg/km

ELECTRICAL & MECHANICAL DATA

Conductor Cross-section	Nom.	1.5 mm2	Temperature Range:		
DC Resistance per core at 20° C	max Ω/km	12.3	During Installation	°C	-5° C up to +50°C
Insulation Resistance at 20° C	min MΩ*km	1000	Fixed Installation	°C	-30° C up to +80°C
Mutual Capacitance	max nF/km	150	Insulation Operation	°C	-30° C up to +90°C
Inductance	max mH/km	1	Min. Bending Radius	mm	8 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension	N	858
Test Voltage - Core/Screen	V	2000	Weight Approx	kg/km	292
L/R Ratio	max μH/Ω	40			
Operating Voltage	V	300			

Product Name

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CONSTRUCTION

16x1.5 mm2

Formation	16 Cores	Unit	Nominal Value
Section	1.5 mm2		
Conductor	Plain annealed copper wire, 7 strand	mm	1.5
Insulation	Cross Linked Polyolefine	mm	2.1
Colour Code	Black Numbered		
Individual Screen	N.A.		
Wrapping	at least 1 layer of plastic tape + interstitial Fillers (IEC/EN 60079-14)		
Collective Screen	0,026 mm Aluminium / PETP tape over tinned copper drain wire		
Inner Sheath	N.A.		
Inner Sheath	N.A.		
Outer Sheath	High Performance Polyvinyl chloride - Hi-PVC - Black	mm	11.9
Cable Printing	<meterMarking> RAMCRO <year> - RE-2X(St)Yw - 16x1.5 mm2 - 300V - EN 50288-7 IEC 60332-3 - IEC 60332-1 MADE IN ITALY <batch>		

TECHNICAL DATA & STANDARD REFERENCES

Fire Propagation:

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

Limiting Oxygen Index (LOI):	(min 30%)
Smoke Density:	IEC 61034
Amount of halogen acid gas:	IEC 60754-1 (max 1,3%)
Acidity (ph value) and conductivity:	IEC 60754-2
Sunlight resistance:	UL 1581 section 1200
Notes:	-- CU 258.6 kg/km

Construction Reference Standard:

Type of Cable:	EN 50288-7 - 300 V Instrumentation Cable
Low Voltage Directive:	2014/35/UE
Other References:	IEC/EN 60079-14 ANNEX E - IEC 60228 - IEC 60332-1 - IEC 60332-3-24 - NF C 32-020

ELECTRICAL & MECHANICAL DATA

Conductor Cross-section	Nom.	1.5 mm2	Temperature Range:		
DC Resistance per core at 20° C	max Ω/km	12.3	During Installation	°C	-5° C up to +50°C
Insulation Resistance at 20° C	min MΩ*km	1000	Fixed Installation	°C	-30° C up to +80°C
Mutual Capacitance	max nF/km	150	Insulation Operation	°C	-30° C up to +90°C
Inductance	max mH/km	1	Min. Bending Radius	mm	8 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension	N	1143
Test Voltage - Core/Screen	V	2000	Weight Approx	kg/km	377
L/R Ratio	max μH/Ω	40			
Operating Voltage	V	300			

Product Name

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Screen, Hi-Performance PVC-Sheath

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APPLICATION

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CONSTRUCTION

20x1.5 mm2

Formation	20 Cores	Unit	Nominal Value
Section	1.5 mm2		
Conductor	Plain annealed copper wire, 7 strand	mm	1.5
Insulation	Cross Linked Polyolefine	mm	2.1
Colour Code	Black Numbered		
Individual Screen	N.A.		
Wrapping	at least 1 layer of plastic tape + interstitial Fillers (IEC/EN 60079-14)		
Collective Screen	0,026 mm Aluminium / PETP tape over tinned copper drain wire		
Inner Sheath	N.A.		
Inner Sheath	N.A.		
Outer Sheath	High Performance Polyvinyl chloride - Hi-PVC - Black	mm	13.3
Cable Printing	<meterMarking> RAMCRO <year> - RE-2X(St)Yw - 20x1.5 mm2 - 300V - EN 50288-7 IEC 60332-3 - IEC 60332-1 MADE IN ITALY <batch>		

TECHNICAL DATA & STANDARD REFERENCES

Fire Propagation:

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

Construction Reference Standard:

Type of Cable:	EN 50288-7 - 300 V Instrumentation Cable
Low Voltage Directive:	2014/35/UE
Other References:	IEC/EN 60079-14 ANNEX E - IEC 60228 - IEC 60332-1 - IEC 60332-3-24 - NF C 32-020

Limiting Oxygen Index (LOI):	(min 30%)
Smoke Density:	IEC 61034
Amount of halogen acid gas:	IEC 60754-1 (max 1,3%)
Acidity (ph value) and conductivity:	IEC 60754-2
Sunlight resistance:	UL 1581 section 1200
Notes:	-- CU 322.9 kg/km

ELECTRICAL & MECHANICAL DATA

Conductor Cross-section	Nom.	1.5 mm2	Temperature Range:		
DC Resistance per core at 20° C	max Ω/km	12.3	During Installation	°C	-5° C up to +50°C
Insulation Resistance at 20° C	min MΩ*km	1000	Fixed Installation	°C	-30° C up to +80°C
Mutual Capacitance	max nF/km	150	Insulation Operation	°C	-30° C up to +90°C
Inductance	max mH/km	1	Min. Bending Radius	mm	8 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension	N	1429
Test Voltage - Core/Screen	V	2000	Weight Approx	kg/km	468
L/R Ratio	max μH/Ω	40			
Operating Voltage	V	300			

Product Name

RAMCROil - INSTRUMENTATION Cable
EN 50288-7 - 300 V

Multi-Core, XLPE-Insulation, Collective
Screen, Hi-Performance PVC-Sheath

Product Code

SAS0815HEOWD-RE3TS


APPLICATION

These cables are designed to connect electrical instrument circuits and provide communication services in and around process plant (e.g. petrochemical industry etc.). Not suitable for direct buried application

CONSTRUCTION

24x1.5 mm2

Formation	24 Cores	Unit	Nominal Value
Section	1.5 mm2		
Conductor	Plain annealed copper wire, 7 strand	mm	1.5
Insulation	Cross Linked Polyolefine	mm	2.1
Colour Code	Black Numbered		
Individual Screen	N.A.		
Wrapping	at least 1 layer of plastic tape + interstitial Fillers (IEC/EN 60079-14)		
Collective Screen	0,026 mm Aluminium / PETP tape over tinned copper drain wire		
Inner Sheath	N.A.		
Inner Sheath	N.A.		
Outer Sheath	High Performance Polyvinyl chloride - Hi-PVC - Black	mm	14.7
Cable Printing	<meterMarking> RAMCRO <year> - RE-2X(St)Yw - 24x1.5 mm2 - 300V - EN 50288-7 IEC 60332-3 - IEC 60332-1 MADE IN ITALY <batch>		

TECHNICAL DATA & STANDARD REFERENCES

Fire Propagation:

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

Construction Reference Standard:

Type of Cable:	EN 50288-7 - 300 V Instrumentation Cable
Low Voltage Directive:	2014/35/UE
Other References:	IEC/EN 60079-14 ANNEX E - IEC 60228 - IEC 60332-1 - IEC 60332-3-24 - NF C 32-020

Limiting Oxygen Index (LOI):	(min 30%)
Smoke Density:	IEC 61034
Amount of halogen acid gas:	IEC 60754-1 (max 1,3%)
Acidity (ph value) and conductivity:	IEC 60754-2
Sunlight resistance:	UL 1581 section 1200
Notes:	-- CU 387.21 kg/km

ELECTRICAL & MECHANICAL DATA

Conductor Cross-section	Nom.	1.5 mm2	Temperature Range:		
DC Resistance per core at 20° C	max Ω/km	12.3	During Installation	°C	-5° C up to +50°C
Insulation Resistance at 20° C	min MΩ*km	1000	Fixed Installation	°C	-30° C up to +80°C
Mutual Capacitance	max nF/km	150	Insulation Operation	°C	-30° C up to +90°C
Inductance	max mH/km	1	Min. Bending Radius	mm	8 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension	N	1715
Test Voltage - Core/Screen	V	2000	Weight Approx	kg/km	556
L/R Ratio	max μH/Ω	40			
Operating Voltage	V	300			