



Vibraflame[®]

CABLES FOR EXTREME TEMPERATURES

Q U A L I T Y

Teams of quality control specialists supervise every stage of the VIBRAFLAME® process, and VIBRAFLAME® cables are required to surpass the most exacting standards.

VIBRAFLAME® cables more than meet the most rigid international and national tests such as NBN C 30-004 with test conditions of :

- temperature produced by a gas burner of 900°C ± 50°C,
- duration of 3 hours,
- mechanical impact every 30 seconds,
- current leakage not to exceed 1 amp. per conductor,
- test must be passed by 4 successive samples.

PARTIAL LISTING OF TEST STANDARDS EXCEEDED BY VIBRAFLAME® CABLES

COUNTRY	STANDARD	DURATION	TEST CONDITIONS	
			TEMP.	OTHER COND.
International Belgium	IEC 331 NBN C 30-004 § 3.3	3 h 3 h	750°C 900°C	In flame In flame mechanical impact every 30 sec.
Germany	VDE 0472-814	20 min to 3 h	800°C	In flame

T H E C O N C E P T

VIBRAFLAME® possesses a unique combination of components and construction that no other cable has ever been able to match :

Insulation : A specially bonded combination of mica, organic polymers (polytetrafluorethylene), and fiberglass (no asbestos) is fire resistant and incapable of propagating flame. It reacts to flame by creating a thermal barrier that protects the conductor and maintains dielectric characteristics.

Conductor : Nickel-plated copper provides excellent resistance to oxidation at high temperatures. VIBRAFLAME® also enjoys flexibility.

VIBRAFLAME® CABLES

WHY IT PAYS TO USE VIBRAFLAME® CABLES

VIBRAFLAME® cables will resist higher temperatures and more rigorous operating conditions than any other kind of flexible cable. They are ideal for the most demanding applications in steel and aluminum plants, coke mills, glass factories, oil refineries and offshore rigs, and in various military and space installations and equipment.

VIBRAFLAME® cables work where other cables fail VIBRAFLAME® cables will maintain electrical circuit integrity at peak temperatures as high as 1565°C. In fires exceeding 1050°C, they will maintain integrity for a minimum of 4 hours. In molten steel or aluminum, they will function for a previously unheard of 15 minutes (min.), allowing you to take steps to prevent costly equipment damage. In addition to heat, VIBRAFLAME® will withstand weather, water, chemicals, acids, and lubricants.

VIBRAFLAME® cables save you money because they last longer and reduce both scheduled and unscheduled downtime.

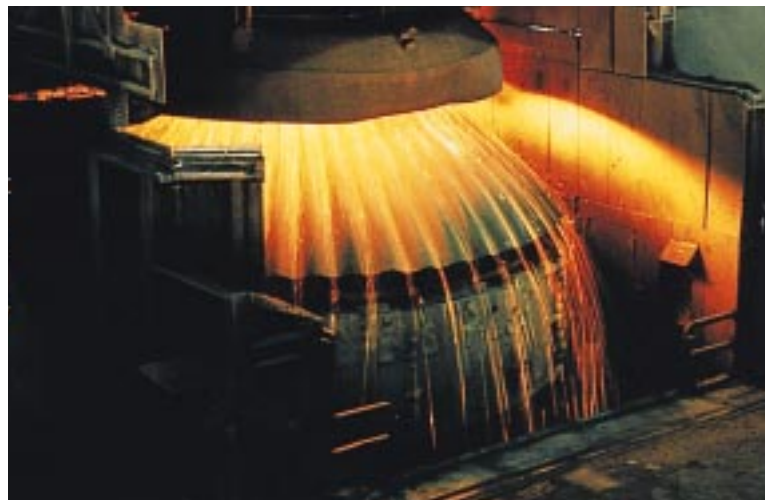
In actual field use, they have proven to last at least 5 times longer than any other heat-resistant cable. Plants generally experience savings of 60 % or more during the first year after switching to VIBRAFLAME® cable. In addition, VIBRAFLAME® often makes new, simpler, and money-saving layouts possible. They may, for instance, eliminate the need for protective conduits.

VIBRAFLAME® cables are safer

They contain no asbestos.

They are fire resistant and will not propagate flame at any temperature. Their high degree of heat resistance and strength prevents accidents that may be caused by extreme temperatures or spillage of molten metal or glass or inflammable materials.

If accidents do occur, VIBRAFLAME® cables give you an extra safety margin of time allowing you to take steps to save equipment, shut down operations, and otherwise minimize the damage and danger to life and property occasioned by industrial accidents.



EXTENSION AND COMPENSATING CABLES FOR THERMOCOUPLES

This range of cables with VIBRAFLAME® insulation will resist temperatures of up to 1050°C. The conductors available include :

- K = Nickel alloy/ Nickel chrome,
- J = Iron/ Constantan,
- T = Copper/ Constantan,
- SX = Copper/ Cupronickel (Alloy 11),
- BX = Copper/ Copper alloy,
- E = Nickel chrome/ Constantan

Should you need any further information, please ask for our "EXTENSION AND COMPENSATING CABLES FOR THERMOCOUPLES" brochure.

AXON' offers engineering assistance & custom design services to advise customers on the cable configurations best suited to their applications.



Molten metal at 1565°C poured on to a multi-conductor VIBRAFLAME® cable under tension.



MARKING AND PACKAGING

- Standard marking : AXON' VIBRAFLAME® PATENT. It is also possible to print any specific customer reference if requested,
- Cables are delivered on reels or drums depending on the cable cross section,
- Minimum ordered quantity : 50 meters.

SPECIAL CABLES

- VIBRAFLAME® cables are available in a wide range of configurations including :
- coaxials,
 - triaxials,
 - high voltage cables.

GENERAL APPLICATIONS

SIGNAL, POWER, CONTROL, LIGHTING

EXAMPLES

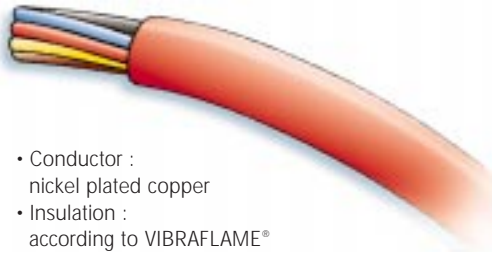
- Tundish, offshore oil rigs : power and control cables.....
- Overhead cranes (steel plants) :
power cables for brakes and motors.....
- Coke oven charging car, pusher and related vehicles for
coke batteries : power, control and coaxial cables.....
- Rotary nozzles : power feed cables.....
- Magnetic flux sensor, bof : control cables
- Electric furnace, bof, blast furnace, plasma furnace :
compensating cables.....
- Ladle transfer ladle preheater : power cables
- Glassware machinery : power and control cables
- Oil refinery shut-off valve control cables
- Compensation cables for insertion pyrometers
- Power lines for electric arc oven sensors

HAZARDS

- Fire, blowout, marine & chemical corrosion.
- High temperature, fire, explosion, steel spills.
- Extreme temperatures, flames, corrosion, weather.
- Operating temperatures : + 1050°C
- Extreme heat : + 1400°C
- Extreme heat.
- Heat, fire, steel spills.
- Fire heat due to hydraulic fluid spills.
- Fire, chemical corrosion.
- Intense heat in a confined space.
- Heat in non-circulating air.



S I N G L E W I R E S



- Conductor : nickel plated copper
- Insulation : according to VIBRAFLAME® type V - BV - RV

TYPE V : Thermal protection

Peak temperatures : -196°C/+1050°C

AXON' REFERENCE	STRANDING	CONDUCTOR			INSULATED WIRE	
		Ø mm	AREA mm ²	LINEIC MAX. RESISTANCE Ω / 100 m	OUTER Ø mm	APPROX. WEIGHT g / m
V 2607	7 x 0.16	0.48	0.14	13.62	2.05	7.5
V 2407	7 x 0.203	0.61	0.226	8.46	2.18	8.8
V 2207	7 x 0.254	0.76	0.354	5.43	2.33	10.5
V 0.50	16 x 0.20	0.90	0.50	3.80	2.47	12.3
V 2019	19 x 0.203	1.01	0.616	3.116	2.58	13.8
V 0.75	24 x 0.20	1.10	0.75	2.50	2.67	15.2
V 1.00	32 x 0.20	1.25	1.00	1.90	2.82	18.1
V 1819	19 x 0.254	1.27	0.962	1.96	2.84	17.9
V 1619 M*	19 x 0.287	1.42	1.229	1.53	2.99	21.0
V 1619 N*	19 x 0.30	1.50	1.34	1.40	3.07	21.3
V 1.50	30 x 0.25	1.50	1.50	1.30	3.07	23.3
V 1419	19 x 0.36	1.80	1.938	0.96	3.37	29.4
V 2.50	50 x 0.25	2.00	2.50	0.78	3.57	34.2
V 1219	19 x 0.455	2.27	3.10	0.60	3.84	41.7
V 1037	37 x 0.405	2.80	4.74	0.41	4.37	59.9
V 4.00	133 x 0.20	3.00	4.31	0.45	4.57	54.9
V 6.00	133 x 0.25	3.80	6.70	0.28	5.37	85.1
V 8133	133 x 0.287	4.10	8.60	0.23	5.67	99.9
V 10.00	210 x 0.25	4.50	10.50	0.186	6.07	121.0
V 6133	133 x 0.36	5.16	13.60	0.150	7.17	159.0
V 16.00	513 x 0.20	6.15	16.60	0.115	8.16	199.0
V 4133	133 x 0.455	6.50	21.70	0.09	8.51	238.0
V 25.00	361 x 0.30	7.50	25.50	0.074	9.51	292.0
V 2665	665 x 0.254	8.30	33.70	0.06	10.31	363.0
V 35.00	703 x 0.25	8.90	35.60	0.053	10.91	400.0
V 1817	817 x 0.254	9.40	41.40	0.050	11.41	442.0
V 50.00	703 x 0.30	10.50	49.70	0.038	12.51	540.0
V 01045	1045 x 0.254	10.55	52.95	0.035	12.56	555.0

Operating voltage : 600 V RMS
Test voltage : 2200 V RMS
Standard colour : red

TYPE BV : Thermal protection

Peak temperatures : -196°C/+400°C

AXON' REFERENCE	STRANDING	CONDUCTOR			INSULATED WIRE	
		Ø mm	AREA mm ²	LINEIC MAX. RESISTANCE Ω / 100 m	OUTER Ø mm	APPROX. WEIGHT g / m
BV 2607	7 x 0.16	0.48	0.14	13.62	1.61	5.7
BV 2407	7 x 0.203	0.61	0.226	8.46	1.74	6.8
BV 2207	7 x 0.254	0.76	0.354	5.43	1.89	8.3
BV 0.50	16 x 0.20	0.90	0.50	3.80	2.03	10.0
BV 2019	19 x 0.203	1.01	0.616	3.116	2.14	11.4
BV 0.75	24 x 0.20	1.10	0.75	2.50	2.23	12.7
BV 1.00	32 x 0.20	1.25	1.00	1.90	2.38	15.4
BV 1819	19 x 0.254	1.27	0.962	1.96	2.40	15.2
BV 1619 M*	19 x 0.287	1.42	1.229	1.53	2.55	18.1
BV 1619 N*	19 x 0.30	1.50	1.34	1.40	2.63	18.3
BV 1.50	30 x 0.25	1.50	1.50	1.30	2.63	20.3
BV 1419	19 x 0.36	1.80	1.938	0.96	2.93	25.8
BV 2.50	50 x 0.25	2.00	2.50	0.78	3.13	30.4
BV 1219	19 x 0.455	2.27	3.10	0.60	3.40	37.8
BV 1037	37 x 0.405	2.80	4.74	0.41	3.93	54.9
BV 4.00	133 x 0.20	3.00	4.31	0.45	4.13	49.6
BV 6.00	133 x 0.25	3.80	6.70	0.28	4.93	79.4

TYPE RV : Thermal protection

Peak temperatures : -196°C/+1565°C

AXON' REFERENCE	STRANDING	CONDUCTOR			INSULATED WIRE	
		Ø mm	AREA mm ²	LINEIC MAX. RESISTANCE Ω / 100 m	OUTER Ø mm	APPROX. WEIGHT g / m
RV 2607	7 x 0.16	0.48	0.14	13.62	2.25	8.0
RV 2407	7 x 0.203	0.61	0.226	8.46	2.38	9.3
RV 2207	7 x 0.254	0.76	0.354	5.43	2.53	11.0
RV 0.50	16 x 0.20	0.90	0.50	3.80	2.67	12.9
RV 2019	19 x 0.203	1.01	0.616	3.116	2.78	14.4
RV 0.75	24 x 0.20	1.10	0.75	2.50	2.87	15.9
RV 1.00	32 x 0.20	1.25	1.00	1.90	3.02	18.8
RV 1819	19 x 0.254	1.27	0.962	1.96	3.04	18.6
RV 1619 M*	19 x 0.287	1.42	1.229	1.53	3.19	21.7
RV 1619 N*	19 x 0.30	1.50	1.34	1.40	3.27	23.4
RV 1.50	30 x 0.25	1.50	1.50	1.30	3.27	24.3
RV 1419	19 x 0.36	1.80	1.938	0.96	3.57	30.0
RV 2.50	50 x 0.25	2.00	2.50	0.78	3.77	35.0
RV 1219	19 x 0.455	2.27	3.10	0.60	4.04	42.6
RV 1037	37 x 0.405	2.80	4.74	0.41	4.57	61.0
RV 4.00	133 x 0.20	3.00	4.31	0.45	4.77	56.0
RV 6.00	133 x 0.25	3.80	6.70	0.28	5.57	86.4

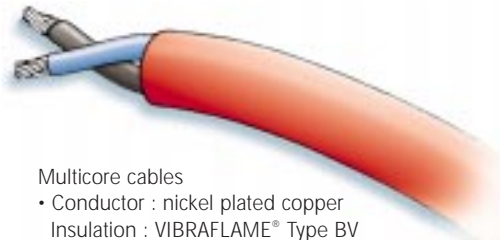
(*) M : according to MIL specification - N : according to NF specification

MULTICORE CABLES TYPE BV

Peak temperatures :
-196°C/+400°C

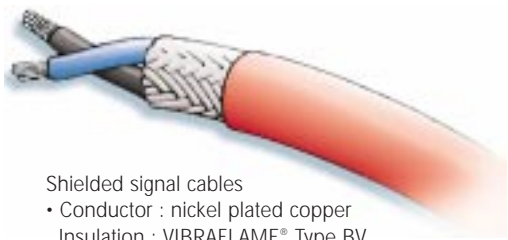
Multicore cables : Thermal protection

Shielded signal cables : Thermal and electromagnetic protection



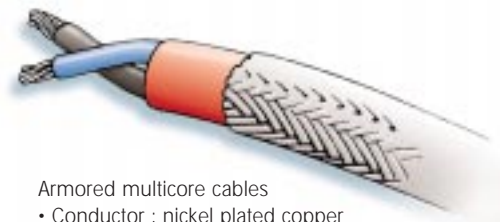
Multicore cables

- Conductor : nickel plated copper
- Insulation : VIBRAFLAME® Type BV
- Jacket : VIBRAFLAME®



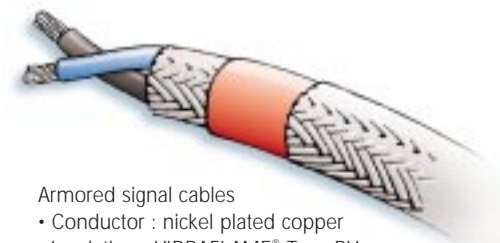
Shielded signal cables

- Conductor : nickel plated copper
- Insulation : VIBRAFLAME® Type BV
- Braid : nickel plated copper
- Jacket : VIBRAFLAME®



Armored multicore cables

- Conductor : nickel plated copper
- Insulation : VIBRAFLAME® Type BV
- Jacket : VIBRAFLAME®
- Armor : annealed stainless steel



Armored signal cables

- Conductor : nickel plated copper
- Insulation : VIBRAFLAME® Type BV
- Braid : nickel plated copper
- Jacket : VIBRAFLAME®
- Armor : annealed stainless steel

MULTICORE CABLES REF.	SHIELDED SIGNAL CABLES REF.	SIZE CROSS SECTION/AWG	NUMBER OF WIRES	
			min.	max.
BV 2607 V x	BV 2607 ST V x	AWG 26	2	25
BV 2407 V x	BV 2407 ST V x	AWG 24	2	24
BV 2207 V x	BV 2207 ST V x	AWG 22	2	21
BV 0.50 V x	BV 0.50 ST V x	0.50 mm ²	2	12
BV 2019 V x	BV 2019 ST V x	AWG 20	2	12
BV 0.75 V x	BV 0.75 ST V x	0.75 mm ²	2	12
BV 1.00 V x	BV 1.00 ST V x	1.00 mm ²	2	12
BV 1819 V x	BV 1819 ST V x	AWG 18	2	12
BV 1619 M V x*	BV 1619 M ST V x*	AWG 16	2	12
BV 1619 N V x*	BV 1619 N ST V x*	AWG 16	2	12
BV 1.50 V x	BV 1.50 ST V x	1.50 mm ²	2	12
BV 1419 V x	BV 1419 ST V x	AWG 14	2	9
BV 1219 V x	BV 1219 ST V x	AWG 12	2	8
BV 2.50 V x	BV 2.50 ST V x	2.50 mm ²	2	7
BV 1037 V x	BV 1037 ST V x	AWG 10	2	7
BV 4.00 V x	BV 4.00 ST V x	4.00 mm ²	2	7
BV 6.00 V x	BV 6.00 ST V x	6.00 mm ²	2	4

Armored multicore cables : Thermal and mechanical protection

Armored signal cables : Thermal, electromagnetic and mechanical protection

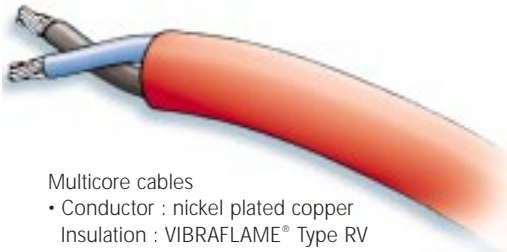
ARMORED MULTICORE CABLES REF.	ARMORED SIGNAL CABLES REF.	SIZE CROSS SECTION/AWG	NUMBER OF WIRES	
			min.	max.
BV 2607 VS x	BV 2607 ST VS x	AWG 26	2	19
BV 2407 VS x	BV 2407 ST VS x	AWG 24	2	19
BV 2207 VS x	BV 2207 ST VS x	AWG 22	2	19
BV 0.50 VS x	BV 0,50 ST VS x	0.50 mm ²	2	12
BV 2019 VS x	BV 2019 ST VS x	AWG 20	2	12
BV 0.75 VS x	BV 0.75 ST VS x	0.75 mm ²	2	12
BV 1.00 VS x	BV 1.00 ST VS x	1.00 mm ²	2	12
BV 1819 VS x	BV 1819 ST VS x	AWG 18	2	12
BV 1619 M VS x*	BV 1619 M ST VS x*	AWG 16	2	12
BV 1619 N VS x*	BV 1619 N ST VS x*	AWG 16	2	12
BV 1.50 VS x	BV 1.50 ST VS x	1.50 mm ²	2	12
BV 1419 VS x	BV 1419 ST VS x	AWG 14	2	7
BV 1219 VS x	BV 1219 ST VS x	AWG 12	2	7
BV 2.50 VS x	BV 2.50 ST VS x	2.50 mm ²	2	7
BV 1037 VS x	BV 1037 ST VS x	AWG 10	2	7
BV 4.00 VS x	BV 4.00 ST VS x	4.00 mm ²	2	4
BV 6.00 VS x	BV 6.00 ST VS x	6.00 mm ²	2	3

Operating voltage : 600 V RMS
Test voltage : 2200 V RMS
Colour :
- single wires colour coded
- outer jacket : red

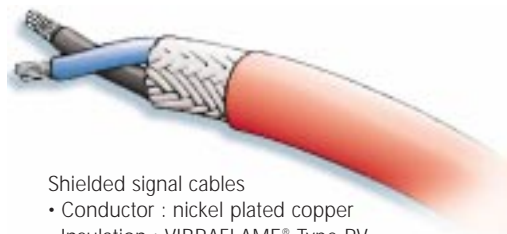
(x) = Number of primary wires
(*) = M : according to MIL specification
N : according to NF specification

MULTICORE CABLES TYPE RV

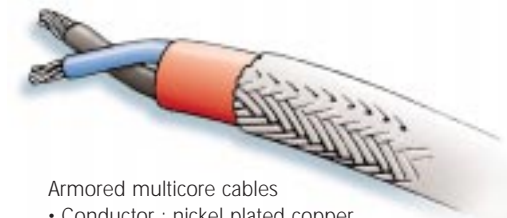
Peak temperatures :
-196°C/+1565°C



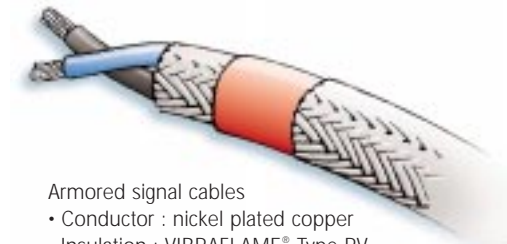
- Multicore cables
- Conductor : nickel plated copper
 - Insulation : VIBRAFLAME® Type RV
 - Jacket : VIBRAFLAME®



- Shielded signal cables
- Conductor : nickel plated copper
 - Insulation : VIBRAFLAME® Type RV
 - Braid : nickel plated copper
 - Jacket : VIBRAFLAME®



- Armored multicore cables
- Conductor : nickel plated copper
 - Insulation : VIBRAFLAME® Type RV
 - Jacket : VIBRAFLAME®
 - Armor : annealed stainless steel



- Armored signal cables
- Conductor : nickel plated copper
 - Insulation : VIBRAFLAME® Type RV
 - Braid : nickel plated copper
 - Jacket : VIBRAFLAME®
 - Armor : annealed stainless steel

Multicore cables : Thermal protection

Shielded signal cables : Thermal and electromagnetic protection

MULTICORE CABLES REF.	SHIELDED SIGNAL CABLES REF.	SIZE CROSS SECTION/AWG	NUMBER OF WIRES	
			min.	max.
RV 2607 V x	RV 2607 ST V x	AWG 26	2	19
RV 2407 V x	RV 2407 ST V x	AWG 24	2	19
RV 2207 V x	RV 2207 ST V x	AWG 22	2	19
RV 0.50 V x	RV 0.50 ST V x	0.50 mm ²	2	12
RV 2019 V x	RV 2019 ST V x	AWG 20	2	12
RV 0.75 V x	RV 0.75 ST V x	0.75 mm ²	2	12
RV 1.00 V x	RV 1.00 ST V x	1.00 mm ²	2	12
RV 1819 V x	RV 1819 ST V x	AWG 18	2	12
RV 1619 M V x*	RV 1619 M ST V x*	AWG 16	2	12
RV 1619 N V x*	RV 1619 N ST V x*	AWG 16	2	12
RV 1.50 V x	RV 1.50 ST V x	1.50 mm ²	2	12
RV 1419 V x	RV 1419 ST V x	AWG 14	2	7
RV 1219 V x	RV 1219 ST V x	AWG 12	2	7
RV 2.50 V x	RV 2.50 ST V x	2.50 mm ²	2	7
RV 1037 V x	RV 1037 ST V x	AWG 10	2	7
RV 4.00 V x	RV 4.00 ST V x	4.00 mm ²	2	4
RV 6.00 V x	RV 6.00 ST V x	6.00 mm ²	2	3

Armored multicore cables : Thermal and mechanical protection

Armored signal cables : Thermal, electromagnetic and mechanical protection

ARMORED MULTICORE CABLES REF.	ARMORED SIGNAL CABLES REF.	SIZE CROSS SECTION/AWG	NUMBER OF WIRES	
			min.	max.
RV 2607 VS x	RV 2607 ST VS x	AWG 26	2	19
RV 2407 VS x	RV 2407 ST VS x	AWG 24	2	19
RV 2207 VS x	RV 2207 ST VS x	AWG 22	2	19
RV 0.50 VS x	RV 0.50 ST VS x	0.50 mm ²	2	12
RV 2019 VS x	RV 2019 ST VS x	AWG 20	2	12
RV 0.75 VS x	RV 0.75 ST VS x	0.75 mm ²	2	12
RV 1.00 VS x	RV 1,00 ST VS x	1.00 mm ²	2	12
RV 1819 VS x	RV 1819 ST VS x	AWG 18	2	12
RV 1619 M VS x*	RV 1619 M ST VS x*	AWG 16	2	12
RV 1619 N VS x*	RV 1619 N ST VS x*	AWG 16	2	12
RV 1.50 VS x	RV 1.50 ST VS x	1.50 mm ²	2	12
RV 1419 VS x	RV 1419 ST VS x	AWG 14	2	7
RV 1219 VS x	RV 1219 ST VS x	AWG 12	2	7
RV 2.50 VS x	RV 2.50 ST VS x	2.50 mm ²	2	7
RV 1037 VS x	RV 1037 ST VS x	AWG 10	2	7
RV 4.00 VS x	RV 4.00 ST VS x	4.00 mm ²	2	4
RV 6.00 VS x	RV 6.00 ST VS x	6.00 mm ²	2	3

Operating voltage : 600 V RMS
Test voltage : 2200 V RMS
Colour :
- single wires colour coded
- outer jacket : red

(x) = Number of primary wires
(*) = M : according to MIL specification
N : according to NF specification

LARGE CROSS SECTION MULTICORE CABLE



- Conductor : nickel plated copper
- Insulation : VIBRAFLAME® Type V
- Polyimide tape
- Armor : annealed stainless steel

Operating voltage : 600 V RMS
 Test voltage : 2200 V RMS
 Colour : single wires colour coded

Peak temperatures :
 -196°C/+1050°C

TYPE V

AXON' REFERENCE	SIZE CROSS SECTION/AWG	NUMBER OF WIRES	
		min.	max.
V 8133 HS x	AWG 8	2	5
V 10.00 HS x	10 mm ²	2	5
V 6133 HS x	AWG 6	2	5
V 16.00 HS x	16 mm ²	2	5
V 4133 HS x	AWG 4	2	4
V 25.00 HS x	25 mm ²	2	4
V 2665 HS x	AWG 2	2	4
V 35.00 HS x	35 mm ²	2	4
V 50.00 HS x	50 mm ²	2	2
V 01045 HS x	AWG 0	2	2

(x) Number of primary wires

TABLE OF EQUIVALENTS

AWG	CROSS-SECTION in mm ²
2607	0.14
2407	0.226
2207	0.354
2019	0.616
1819	0.962
1619 M	1.229
1619 N	1.34
1419	1.938
1219	3.10
1037	4.74
8133	8.60
6133	13.60
4133	21.70
2665	33.70
1817	41.40
01045	52.95

ORDER CODE

Example : a multiconductor cable made of :
 - 6 conductors RV 1619 M twisted
 - a nickel plated copper braid
 - a VIBRAFLAME® insulation
 - a stainless steel armor.

Reference = RV 1619 M STV S06

- RV Insulation of the conductor.
 BV = single wire : type 400°C
 V = single wire : type 1050°C
 RV = single wire : type 1050°C

1619 M AWG or metric wire gauge (mm²)
 of the conductor + one letter for AWG 16.

ST ST = Nickel plated copper braid.

V V = VIBRAFLAME® insulation.

S S = Stainless steel armor.

06 Number of conductors in the case
 of a multiconductor cable.

XXXXXX Colour code



CUSTOMER BUYING GUIDE

The following data gives you a basic pattern of technical information which is essential to our technical department in order to meet the exact customer requirement :

- Operating temperature,
- Peak temperature,
- Operating voltage,
- Conductor section,
- Precise description of conditions of use (reeled, static, mechanical constraints, stifling or ventilated atmosphere, heating, flame,...).

For any detailed information on the outer diameter of the cables, do not hesitate to contact our sales engineers.

VIBRAFLAME® INTERNATIONAL COLOUR CODE

	B	H	F	C	D	L	E	G	J	K
Number of conductors	Black	Blue	Yellow	Brown	Red	White	Orange	Green	Violet	Grey
2	▲	▲								
3	▲	▲								
4	▲	▲	▲	▲						
5	▲	▲	▲	▲	▲					
6	▲	▲	▲	▲	▲	▲				
7	▲	▲	▲	▲	▲	▲	▲			
8	▲	▲	▲	▲	▲	▲	▲	▲		
9	▲	▲	▲	▲	▲	▲	▲	▲	▲	
10	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲

Standard colour of primary wires : red - Standard colour of outer jacket : red. Special colour coding available on request.

>> **BRAZIL**

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