Fire Resistant Cables

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Fabbrica Trentina Conduttori
Südtirol Kabelwerke

Bericacavi

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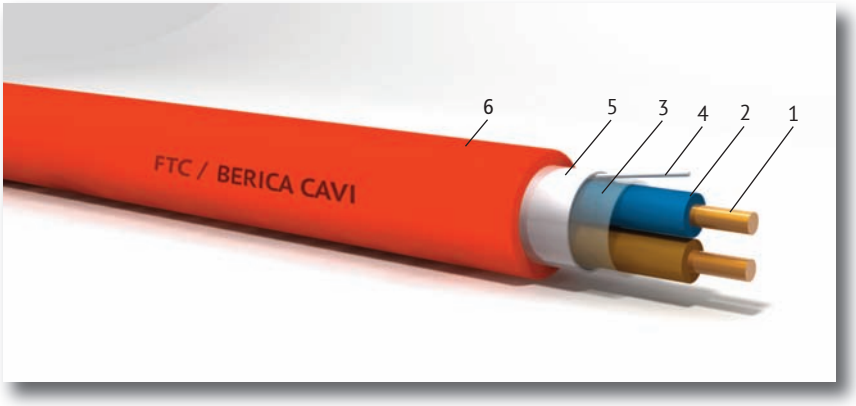
EUROSAFE SCREENED 300/500 V

Power cables and control and signaling, shielded aluminum/polyester flame retardant, halogen free and fire resistant



1. Conductor
2. Insulation
3. Assembling
4. Drain wire
5. Al/Pet tape
6. Outer sheath

APPLICATION: Suitable for the transport of energy and signal transmission and electrical controls for when you need maximum security against fire, such as emergency lighting and alarm systems, automatic fire detection, fire extinguishing devices, automatic door opening, ventilation systems and air conditioning, emergency telephone systems.

INSTALLATION: For fixed installation, normal or wet environments inside and outside temporarily. They can be installed on platforms, pipes, conduits and similar systems.

FEATURES	DESCRIPTION	RULES
Conductors:	bare copper cl. 1	CEI EN 60228 (Tab 9)
Insulation:	ceramizable silicon rubber	
Cores colour code:		CEI UNEL 00722
Assembling:	polyester tape	
Drain wire:	tinned copper 1x0,6 mm	
Shield:	Al/Pet tape thickness 9/23 µm covering > 110%	
Outer sheath:	LSZH compound M1 Type	CEI 20-11 - CEI EN 50363
Sheath colour code:	red RAL 3000	
Fire retardant:		IEC 60332-3-24
Flame retardant:		CEI EN 60332-1-2
Halogen free:	(< 0,5 mg/g - 0,5%)	CEI EN 50267-2-1/2 - IEC 60754-1/2
Reduced smoke emissions:	(transmittance>60%)	CEI EN 61034-2
Fire resistant:	during 120 min. at 830 °C. - 0 ÷ + 40 °C	CEI EN 50200
Fire resistant:		BS 6387 cat. CWZ
Electric resistance:	according to	CEI EN 60228 (Tab 9)
Rated voltage Uo/U:	300/500 V	
Max voltage:	550 V	
Testing voltage:	2 kV	
Max working temperature:	90 °C	
Max conductor temperature:	180 °C	
Short circuit temperature:	350 °C	
Min installation temperature:	0 °C	
Bending radius:	Ø x 8	
Outer printing:	FTC / BERICA CAVI S.P.A. (VI) EUROSAFE Nr cores x Sect. mmq SHIELDED 300/500 V BS 6387 CWZ	
	CEI EN 50200 PH(120) IEC 60332-3 CE Year/Lot	

TYPE n° x mm²	MEDIUM Ø OUTER mm	MEDIUM WEIGHT kg/km
2x0,50	5,3	36
2X0,75	6,1	49
3x0,75	6,7	65
4x0,75	7,2	79
6x0,75	8,4	107
2x1	6,7	58
3x1	7,1	74
4x1	7,7	91

TYPE n° x mm²	MEDIUM Ø OUTER mm	MEDIUM WEIGHT kg/km
2x1,5	8,1	82
3x1,5	8,6	107
4x1,5	9,4	133
5x1,5	10,2	159
2x2,5	8,9	107
3x2,5	9,5	142
4x2,5	10,3	179
5x2,5	11,3	217

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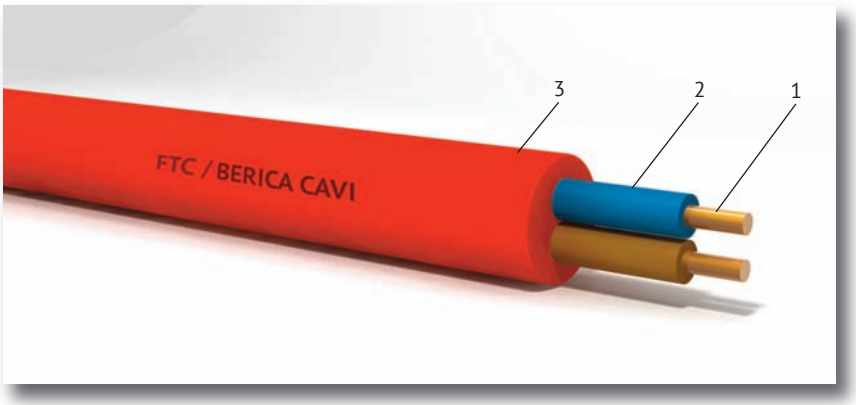
EUROSAFE UNSCREENED 300/500 V

Power cables and control and signaling, fire-retardant, halogen free and fire resistant

1. Conductor
2. Isnsulation
3. Outer sheath



APPLICATION: Suitable for the transport of energy and signal transmission and electrical controls for when you need maximum security against fire, such as emergency lighting and alarm systems, automatic fire detection, fire extinguishing devices, automatic door opening, ventilation systems and air conditioning, emergency telephone systems.

INSTALLATION: For fixed installation, normal or wet environments inside and outside temporarily. They can be installed on platforms, pipes, conduits and similar systems.

FEATURES	DESCRIPTION	RULES
Conductors:	bare copper cl. 1	CEI EN 60228 (Tab 9)
Insulation:	ceramizable silicon rubber	
Cores colour code:		CEI UNEL 00722
Outer sheath:	LSZH compound M1 Type	CEI 20-11 - CEI EN 50363
Sheath colour code:	red RAL 3000	
Fire retardant:		IEC 60332-3-24
Flame retardant:		CEI EN 60332-1-2
Halogen free:	(< 0,5 mg/g - 0,5%)	CEI EN 50267-2-1/2 - IEC 60754 1/2
Reduced smoke emissions:	(transmittance >60%)	CEI EN 61034-2
Fire resistant:	during 120 min. at 830 °C. - 0 ÷ + 40 °C	CEI EN 50200
Fire resistant:		BS 6387 cat. CWZ
Electric resistance:	according to	CEI EN 60228 (Tab 9)
Rated voltage Uo/U:	300/500 V	
Max voltage:	550 V	
Testing voltage:	2 kV	
Max working temeprature:	90 °C	
Conductor max temeprature:	180 °C	
Short circuit temeprature:	350 °C	
Min installation temperature:	0 °C	
Bending radius:	Ø x 8	
Outer sheath:	FTC / BERICA CAVI S.P.A. (VI) EUROSAFE Nr cores x Sect mmq UNSHIELDED 300/500 V	
	BS 6387 CWZ CEI EN 50200 PH(120) IEC 60332-3 CE Year/Lot	

TYPE n° x mm²	MEDIUM Ø OUTER mm	MEDIUM WEIGHT kg/km
2x0,50	5,2	32
2X0,75	6,0	44
3x0,75	6,6	60
4x0,75	7,1	74
2x1	6,6	54
3x1	7,0	70
4x1	7,6	87

TYPE n° x mm²	MEDIUM Ø OUTER mm	MEDIUM WEIGHT kg/km
2x1,5	8,0	78
3x1,5	8,5	102
4x1,5	9,3	128
5x1,5	10,1	154
2x2,5	8,8	102
3x2,5	9,4	138
4x2,5	10,2	174
5x2,5	11,2	212

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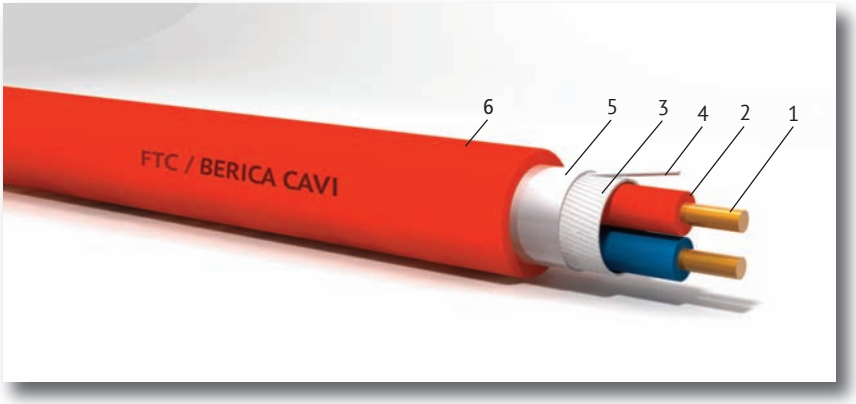
EUROSAFE JE-H(St)H 300/500 V

Power cables and control and signaling, shielded aluminum/polyester flame retardant, halogen free and fire resistant



1. Conductor
2. Insulation
3. Flame protection
4. Drain wire
5. Al/Pet tape
6. Outer sheath

APPLICATION: Suitable for the transport of energy and signal transmission and electrical controls for when you need maximum security against fire, such as emergency lighting and alarm systems, automatic fire detection, fire extinguishing devices, automatic door opening, ventilation systems and air conditioning, emergency telephone systems.

INSTALLATION: For fixed installation, normal or wet environments inside and outside temporarily. They can be installed on platforms, pipes, conduits and similar systems.

FEATURES	DESCRIPTION	RULES
Conductors:	bare copper cl. 1	CEI EN 60228 (Tab 9)
Insulation:	ceramizable silicon rubber	
Cores colour:	(blue-red) - (yellow-grey) - (green-brown) - (white-black)	DIN VDE 815
Flame protection:	glass-fibre tape thichness 0,12 mm	
Drain wire:	tinned copper 1x0,6 mm	
Shield:	Al/Pet tape thickness 9/23 µm covering > 110%	
Outer sheath:	LSZH compound M1 Type	CEI 20-11 - CEI EN 50363
Sheath colour code:	red RAL 3000	
Fire retardant:		CEI EN 50266-2-4 cat. C
Flame retardant:		CEI EN 60332-1-2
Halogen free:	(< 0,5 mg/g - 0,5%)	CEI EN 50267-2-1/2 - IEC 60754-1/2
Reduced smoke emissions:	(trasmittance >60%)	CEI EN 61034-2
Fire resistant:	during 120 min. at 830 °C. - 0 ÷ + 40 °C	CEI EN 50200
Fire resistant:		DIN VDE 4102-12
Fire resistant:	during 180 min. at 750 °C (FE180)	IEC 60331-21 - VDE 472-814
Electric resistance:	according to	CEI EN 60228 (Tab 9)
Rated voltage Uo/U:	300/500 V	
Max voltage:	550 V	
Testing voltage:	2 kV	
Working max temperature:	90 °C	
Cunductor max temperature:	180 °C	
Short-circuit temperature:	350 °C	
Min. installation temperature:	0 °C	
Bending radius:	Ø x 10	
Outer printing:	FCT / BERICA CAVI S.P.A. (VI) EUROSAFE JE-H(St)H Nr cores x Ø cond. E30/E60 DIN 4102-12	
	CEI EN 50200 PH(120) CE Year/Lot	

TYPE n° x Ø	MEDIUM Ø OUTER mm	MEDIUM WEIGHT kg/km
1x2x0,80	5,8	40
2x2x0,80	8,8	77
3x2x0,80	9,4	97
4x2x0,80	11,0	126
5x2x0,80	11,6	147
7x2x0,80	12,7	187
8x2x0,80	13,4	214

TYPE n° x Ø	MEDIUM Ø OUTER mm	MEDIUM WEIGHT kg/km
10x2x0,80	14,8	256
12x2x0,80	16,2	299
1x2x0,90	6,0	45
2x2x0,90	8,8	84
6x2x0,90	12,7	190
12x2x0,90	16,9	344

For more information about test report see:

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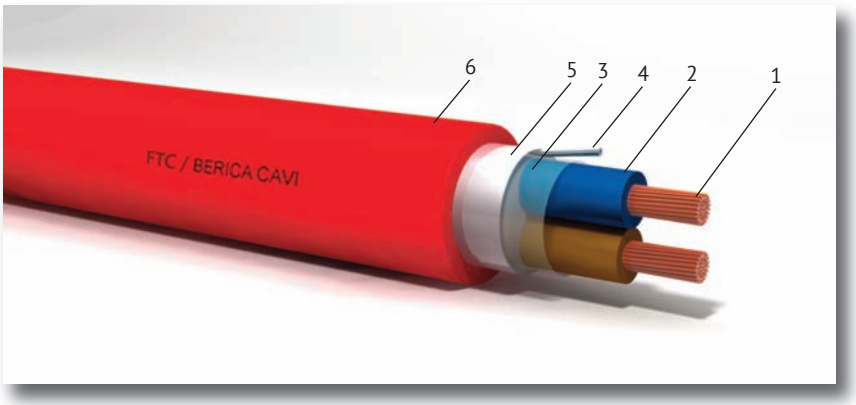
EUROSAFE FLEX 300/500 V

Power cables and control and signaling, shielded aluminum/polyester flame retardant, halogen free and fire resistant

1. Conductor
2. Insulation
3. Assembling
4. Drain wire
5. Al/Pet tape
6. Outer sheath



APPLICATION: Suitable for the transport of energy and signal transmission and electrical controls for when you need maximum security against fire, such as emergency lighting and alarm systems, automatic fire detection, fire extinguishing devices, automatic door opening, ventilation systems and air conditioning, emergency telephone systems.

INSTALLATION: For fixed installation, normal or wet environments inside and outside temporarily. They can be installed on platforms, pipes, conduits and similar systems.

FEATURES	DESCRIPTION	RULES
Conductors:	bare copper cl. 5	CEI EN 60228 (Tab 9)
Insulation:	ceramizable silicon rubber	
Cores colour code:		CEI UNEL 00722
Assembling:	polyester tape	
Drain wire:	tinned copper 1x0,6 mm	
Shield:	Al/Pet tape thickness 9/23 µm covering > 110%	
Outer sheath:	LSZH compound M1 type	CEI 20-11 - CEI EN 50363
Sheath colour code:	red RAL 3000	
Fire retardant:		IEC 60332-3-24
Flame retardant:		CEI EN 60332-1-2
Halogen free:	(< 0,5 mg/g - 0,5%)	CEI EN 50267-2-1/2 - IEC 60754 1/2
Reduced smoke emissions:	(transmittance >60%)	CEI EN 61034-2
Fire resistant:	during 120 min. at 830 °C. - 0 ÷ + 40 °C	CEI EN 50200
Electric resistance:	according to	CEI EN 60228 (Tab 9)
Rated voltage Uo/U:	300/500 V	
Max voltage:	550 V	
Testing voltage:	2 kV	
Max working temeprature:	90 °C	
Conductor max temeprature:	180 °C	
Short circuit temeprature:	350 °C	
Min installation temperature:	0 °C	
Bending radius:	Ø x 8	
Outer sheath:	FTC / BERICA CAVI S.P.A. (VI) EUROSAFE FLEX Nr cores x Sect mmq UNSHIELDED 300/500 V	
	CEI EN 50200 PH(120) IEC 60332-3 CE Year/Lot	

TYPE n° x mm²	MEDIUM Ø OUTER mm	MEDIUM WEIGHT kg/km
2x0,50	6,1	39
3x0,50	6,4	52
4x0,50	7,0	62
5x0,50	7,8	70
2x0,75	6,3	49
3x0,75	6,8	63
4x0,75	7,4	76
5x0,75	7,4	94
2x1	7,1	61
3x1	7,3	80

TYPE n° x mm²	MEDIUM Ø OUTER mm	MEDIUM WEIGHT kg/km
4x1	8,1	95
5x1	8,9	110
2x1,5	8,0	83
3x1,5	8,6	105
4x1,5	9,3	135
5x1,5	10,2	170
2x2,5	9,3	83
3x2,5	9,8	145
4x2,5	10,8	187
5x2,5	11,8	220

For more information about test report see:

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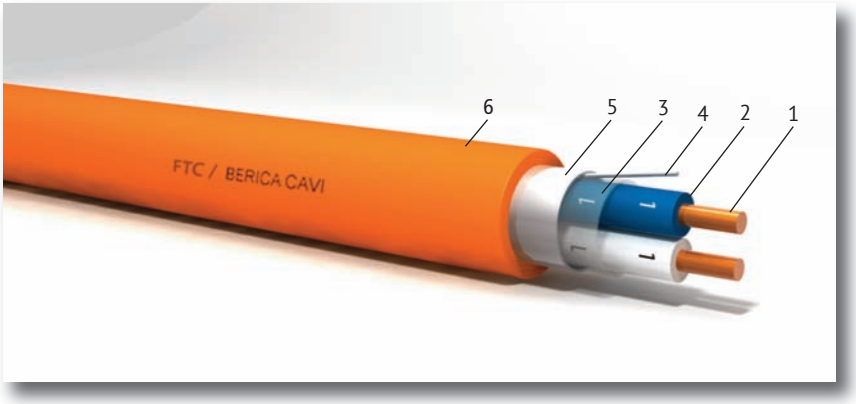
EUROSAFE NBN 300/500 V

Telephone cable, shielded aluminum/polyester flame retardant, halogen free and fire resistant



1. Conductor
2. Insulation
3. Assembling
4. Drain wire
5. Al/Pet tape
6. Outer sheath

APPLICATION: Suitable for the interconnection of telephone equipment when you need maximum security against fire.

INSTALLATION: For fixed installation, normal or wet environments inside and outside temporarily. They can be installed on platforms, pipes, conduits and similar systems.

FEATURES	DESCRIPTION	RULES
Conductors:	bare copper cl. 1	CEI EN 60228 (Tab 9)
Insulation:	ceramizable silicon rubber	
Cores colour code:	numbered white and blue	CEI UNEL 00722
Assembling:	polyester tape	
Drain wire:	tinned copper 1x0,6 mm	
Shield:	Al/Pet tape thickness 9/23 µm covering > 110%	
Outer sheath:	LSZH compound M1 type	CEI 20-11 - CEI EN 50363
Sheath colour code:	orange RAL 2003	
Fire retardant:		IEC 60332-3-24
Flame retardant:		CEI EN 60332-1-2
Halogen free:	(< 0,5 mg/g - 0,5%)	CEI EN 50267-2-1/2 - IEC 60754-1/2
Reduced smoke emissions:	(transmittance>60%)	CEI EN 61034-2
Fire resistant:	during 120 min. at 830 °C. - 0 ÷ + 40 °C	CEI EN 50200
Fire resistant:		NBN 30.004 - NBN 713.02
Electric resistance:	according to	
Rated voltage Uo/U:	300/500 V	
Max voltage:	550 V	
Testing voltage:	2 kV	
Max working temperature:	90 °C	
Max conductor temperature:	180 °C	
Short circuit temperature:	350 °C	
Min installation temperature:	0 °C	
Bending radius:	Ø x 8	
Outer printing:	FTC / BERICA CAVI S.P.A. (VI) EUROSAFE Nr cores x Ø 300/500 V NBN 30.004 NBN 713.02 RF 1,5U	
	CEI EN 50200 PH(120) IEC 60332-3 CE Year/Lot	

TYPE n° x Ø	MEDIUM Ø OUTER mm	MEDIUM WEIGHT kg/km
1x2x0,9	6,0	45
2x2x0,9	8,5	83
3x2x0,9	9,6	117
4x2x0,9	10,7	144
5x2x0,9	11,7	171

TYPE n° x Ø	MEDIUM Ø OUTER mm	MEDIUM WEIGHT kg/km
6x2x0,9	12,6	196
7x2x0,9	12,8	218
10x2x0,9	15,6	297
12x2x0,9	15,8	339

For more information about test report see:

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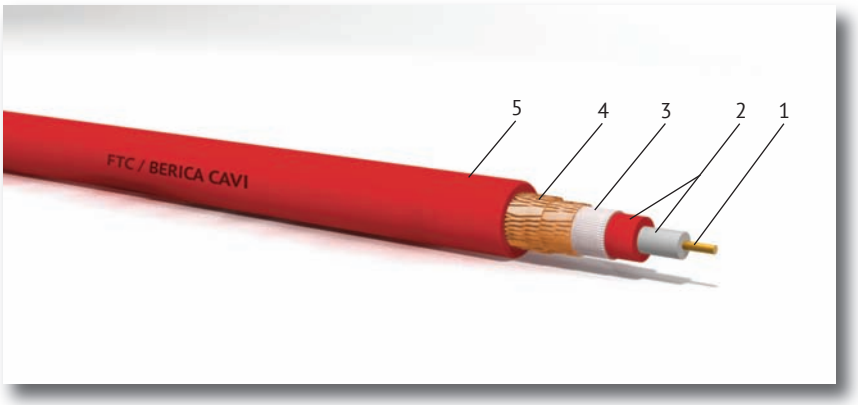
RG 59 B/U FR 75Ω LSZH

Coaxial cables for video signal transmission, halogen free

1. Conductor
2. Insulation
3. Flame protection
4. Shield
5. Outer sheath



APPLICATION: Suitable for the connection between camera and recorder in a closed circuit television systems when there is requirement to transmit the signal in the presence of a great fire.

INSTALLATION: For fixed installation inside, without protection or pipes within sight, embedded or closed systems.

FEATURES	DESCRIPTION	RULES
Conductor:	bare copper 0,65 mm	
Insulation:	polyethylene	
Insulation:	ceramizable silicon rubber	
Flame protection:	glass tape	
Shield:	double bare copper braid	
Outer sheath:	LSZH Compound M1 type	CEI 20-11 - CEI EN 50363
Sheath colour code:	red RAL 3000	
Flame retardant:		CEI EN 60332-1-2
Halogens free:	(< 0,5 mg/g - 0,5%)	CEI EN 50267-2-1/2 - IEC 60754-1/2
Reduced smoke emmission:	(transmittance > 60%)	CEI EN 61034-2
Fire resistant:	during 90 minutes at 830 °C -0 ÷ + 40 °C	CEI EN 50200
Testing voltage:	7 kVac	
Max working temeprature:	90 °C	
Min. installation temperature:	0 °C	
Bending radius:	Ø x 14	
Outer sheath:	FTC / BERICA CAVI S.P.A. (VI) RG 59 B/U FR Year/Lot	

ATTENUATION						
MHz	0,5	1	5	10	100	300
dB/100 m	0,7	1,1	2,6	3,6	14,3	31,6

TYPE	MEDIUM Ø OUTER mm	MEDIUM WEIGHT kg/km
RG 59 B/U FR	8,9	124,0

For more information about test report see:

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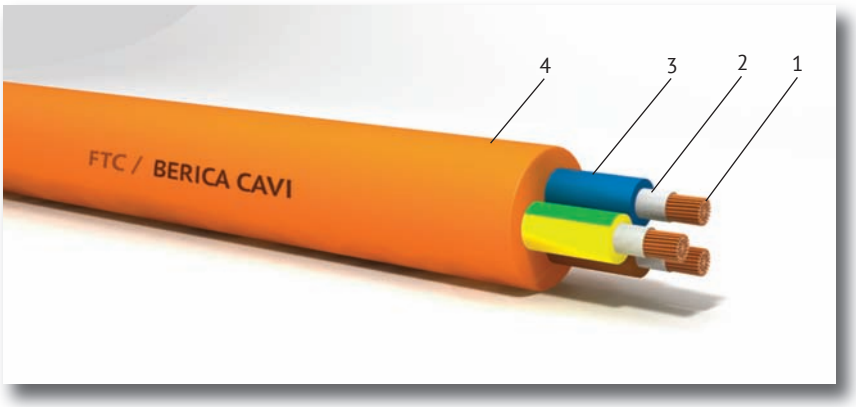
(N)HXH 0,6/1 kV FE180/E30

Power, control and signaling cables, fire resistant, flame retardant, halogen free



1. Conductor
2. Flame protection
3. Insulation
4. Outer sheath

APPLICATION: Suitable for power transmission and transmission of electrical signals and commands when you need maximum security against fire, such as emergency lighting and alarm systems, automatic fire detection, fire extinguishing devices, automatic door opening, ventilation systems and air conditioning, emergency telephone systems.

INSTALLATION: For fixed installation inside and outside even in wet environments. Can be installed on walls or metal structures, on platforms, pipes, conduits and similar systems. For laying underground direct or indirect.

FEATURES	DESCRIPTION	RULES
Conductors:	bare copper cl. 5	CEI EN 60228 (Tab 9)
Flame protection:	glass-mica tape thickness > 0,10 mm	
Insualtion:	LSZH compound	CEI 20-11 - CEI EN 50363
Cores colour code:		CEI UNEL 00722 - HD 308
Outer sheath:	LSZH compound M1 type	CEI 20-11 - CEI EN 50363
Sheath colour code:	orange Ral 2004	
Fire retardant:		CEI EN 50266-2-4 cat. C
Flame retardant:		CEI EN 60332-1-2
Halogen free:	(<0,5 mg/g - 0,5%)	CEI EN 50267-2-1/2 - IEC 60754-1/2
Reduced toxic gases emission:	(toxicity index <2%)	CEI 20-37/4-0
Reduced smoke emission:	(transmittance >60%)	CEI EN 61034-2
Fire resistant:	during 90 min. at 830 °C. - 0 ÷ + 40 °C	CEI EN 50200 per Ø ≤ 20 mm
Fire resistant:	during 120 min. at 830 °C. - 0 ÷ + 40 °C	CEI EN 50362 per Ø > 20 mm
Fire resistant:	during 180 min. at 750 °C (FE180)	IEC 60331-21 - VDE 472-814
Fire resistant:	(E30)	DIN VDE 4102-12
Electric resistance:	according to	CEI EN 60228 (Tab 9)
Current capability:		CEI UNEL 35024/1 - CEI UNEL 35026
Rated voltage Uo/U:	0,6/1 kV	
Max voltage:	1,2 kV	
Testing voltage:	4 kV	
Max working temperature:	90 °C	
Short circuit temperature:	250 °C	
Min. installation temperature:	0 °C	
Bending radius:	Ø x 14	
Outer printing:	FTC / BERICA CAVI S.P.A. (VI) (N)HXH FE180 / E30 IEC 60331-21 DIN VDE 4102-12 CE Year/Lot	
	Nr cores x/G Section Prog. metric	

For more information about test report see:

www.fctsecuritycables.com

(N)HXH 0,6/1 kV FE180/E30

Power, control and signaling cables, fire resistant, flame retardant, halogen free

TYPE n° x mm²	MEDIUM Ø OUTER mm	MEDIUM WEIGHT kg/km	TYPE n° x mm²	MEDIUM Ø OUTER mm	MEDIUM WEIGHT kg/km
1x1,5	7,0	68,0	7G1,5	14,2	315,0
2x1,5	12,2	191,0	10G1,5	17,9	420,0
3G1,5	12,8	217,0	12G1,5	18,9	492,0
4G1,5	13,9	243,0	16G1,5	21,1	596,0
5G1,5	15,1	298,0	19G1,5	22,3	693,0
			24G1,5	25,6	880,0
1x2,5	7,5	78,0	36G1,5	30,5	1230,0
2x2,5	13,0	224,0	48G1,5	35,1	1620,0
3G2,5	13,9	264,0			
4G2,5	14,9	310,0	7G2,5	15,8	412,0
5G2,5	16,3	370,0	10G2,5	19,9	560,0
			12G2,5	21,1	650,0
1x4	8,0	96,0	16G2,5	23,6	820,0
2x4	14,0	274,0	19G2,5	25,0	930,0
3G4	15,0	327,0	24G2,5	28,8	1180,0
4G4	16,1	380,0	36G2,5	34,2	1810,0
5G4	17,6	477,0	48G2,5	39,5	2450,0
1x6	8,6	121,0			
2x6	15,2	342,0			
3G6	16,1	412,0			
4G6	17,6	489,0			
5G6	19,3	612,0			
1x10	9,9	182,0			
2x10	17,8	496,0			
3G10	18,9	614,0			
4G10	20,7	756,0			
5G10	22,8	935,0			
1x16	11,0	246,0			
2x16	20,0	673,0			
3G16	21,2	819,0			
4G16	23,4	1021,0			
5G16	25,7	1267,0			
1x25	12,8	353,0			
2x25	23,6	900,0			
3G25	25,1	1206,0			
4G25	27,7	1481,0			
5G25	31,0	1868,0			
1x35	13,5	457,0			
1x50	15,5	650,0			
1x70	17,5	806,0			
1x95	20,1	1062,0			
1x120	22,6	1342,0			
1x150	24,9	1690,0			
1x185	27,7	1930,0			
1x240	29,1	2500,0			

For more information about test report see:

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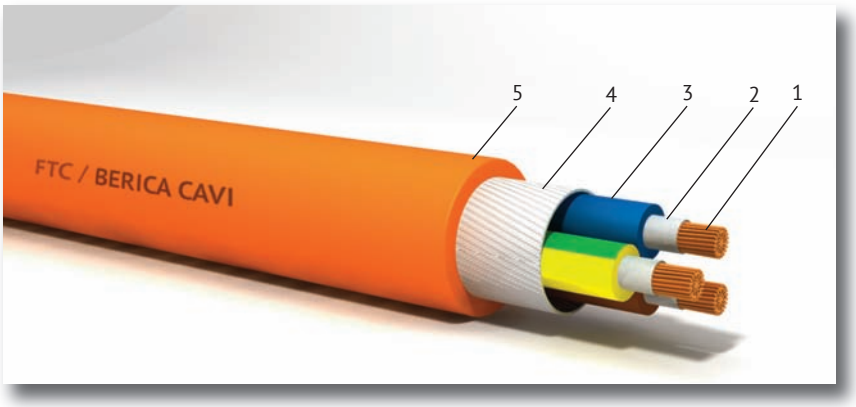
(N)HXH 0,6/1 kV FE180/E90

Power, control and signaling cables, fire resistant, flame retardant, halogen free



1. Conductor
2. Flame protection
3. Insulation
4. Glass-mica tape
5. Outer sheath

APPLICATION: Suitable for power transmission and transmission of electrical signals and commands when you need maximum security against fire, such as emergency lighting and alarm systems, automatic fire detection, fire extinguishing devices, automatic door opening, ventilation systems and air conditioning, emergency telephone systems.

INSTALLATION: For fixed installation inside and outside even in wet environments. Can be installed on walls or metal structures, on platforms, pipes, conduits and similar systems. For laying underground direct or indirect.

FEATURES	DESCRIPTION	RULES
Conductors:	bare copper cl. 5	CEI EN 60228 (Tab 9)
Flame protection:	glass-mica tape thickness > 0,10 mm	
Insulation:	LSZH compound	CEI 20-11 - CEI EN 50363
Cores colour code:		CEI UNEL 00722 - HD 308
Outer sheath:	LSZH compound M1 type	CEI 20-11 - CEI EN 50363
Sheath colour code:	orange Ral 2004	
Fire retardant:		CEI EN 50266-2-4 cat. C
Flame retardant:		CEI EN 60332-1-2
Halogen free:	(<0,5 mg/g - 0,5%)	CEI EN 50267-2-1/2 - IEC 60754-1/2
Reduced toxic gases emission:	(toxicity index <2%)	CEI 20-37/4-0
Reduced smoke emission:	(transmittance >60%)	CEI EN 61034-2
Fire resistant:	During 90 min. at 830 °C. - 0 ÷ + 40 °C	CEI EN 50200 per Ø ≤ 20 mm
Fire resistant:	Duraing 120 min. at 830 °C. - 0 ÷ + 40 °C	CEI EN 50362 per Ø > 20 mm
Fire resistant:	During 180 min. at 750 °C (FE180)	IEC 60331-21 - VDE 472-814
Fire resistant:	(E90)	DIN VDE 4102-12
Electric resistance:	according to	CEI EN 60228 (Tab 9)
Current capability:		CEI UNEL 35024/1 - CEI UNEL 35026
Rated voltage Uo/U:	0,6/1 kV	
Max voltage:	1,2 kV	
Testing voltage:	4 kV	
Max working temperature:	90 °C	
Short circuit temperature:	250 °C	
Min. installation temperature:	0 °C	
Bending radius:	Ø x 14	
Outer printing:	FTC / BERICA CAVI S.P.A. (VI) (N)HXH FE180 / E90 IEC 60331-21 DIN VDE 4102-12 CE Year/Lot	
	Nr cores x/G Sect. Progr. Metric	

For more information about test report see:

www.fctsecuritycables.com

(N)HXH 0,6/1 kV FE180/E90

Power, control and signaling cables, fire resistant, flame retardant, halogen free

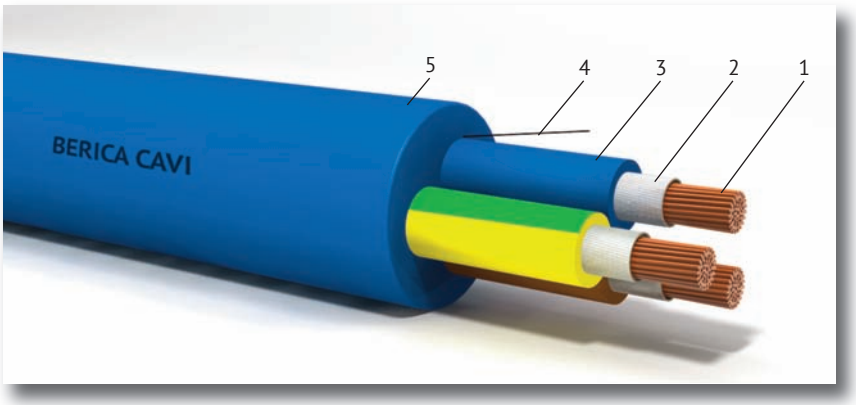
TYPE n° x mm²	MEDIUM Ø OUTER mm	MEDIUM WEIGHT kg/km	TYPE n° x mm²	MEDIUM Ø OUTER mm	MEDIUM WEIGHT kg/km
1x1,5	7,5	71,0	7G1,5	14,9	322,0
2x1,5	12,7	196,0	10G1,5	18,5	429,0
3G1,5	13,3	223,0	12G1,5	19,6	502,0
4G1,5	14,4	249,0	16G1,5	21,8	607,0
5G1,5	15,6	305,0	19G1,5	23,0	705,0
			24G1,5	26,3	893,0
1x2,5	8,2	81,0	36G1,5	31,1	1246,0
2x2,5	13,7	230,0	48G1,5	35,8	1639,0
3G2,5	14,4	270,0			
4G2,5	15,6	317,0	7G2,5	16,5	420,0
5G2,5	17,0	378,0	10G2,5	20,6	570,0
			12G2,5	21,8	661,0
1x4	8,7	99,0	16G2,5	24,3	832,0
2x4	14,7	280,0	19G2,5	25,7	943,0
3G4	15,5	334,0	24G2,5	29,4	1195,0
4G4	16,8	388,0	36G2,5	34,9	1828,0
5G4	18,3	486,0	48G2,5	40,2	2471,0
1x6	9,3	125,0			
2x6	15,9	349,0			
3G6	16,8	420,0			
4G6	18,3	498,0			
5G6	19,9	622,0			
1x10	10,6	186,0			
2x10	18,5	505,0			
3G10	19,5	623,0			
4G10	21,4	766,0			
5G10	23,5	947,0			
1x16	11,7	251,0			
2x16	20,7	683,0			
3G16	21,9	830,0			
4G16	24,0	1033,0			
5G16	26,4	1280,0			
1x25	13,5	359,0			
2x25	24,3	912,0			
3G25	25,8	1219,0			
4G25	28,4	1496,0			
5G25	31,7	1884,0			
1x35	14,2	464,0			
1x50	16,2	658,0			
1x70	18,2	815,0			
1x95	20,8	1072,0			
1x120	23,3	1354,0			
1x150	25,6	1703,0			
1x185	28,4	1945,0			
1x240	29,8	2515,0			

For more information about test report see:

www.fctsecuritycables.com

FTG10OM1 0,6/1 kV CEI 20-45

Power, control and signaling cables, fire resistant, fire retardant, halogen free



1. Conductor
2. Flame protection
3. Insulation
4. Identification thread
5. Outer sheath

APPLICATION: Suitable for power transmission and transmission of electrical signals and commands when you need maximum security against fire, such as emergency lighting and alarm systems, automatic fire detection, fire extinguishing devices, automatic door opening, ventilation systems and air conditioning, emergency telephone systems.

INSTALLATION: For fixed installation inside and outside even in wet environments. Can be installed on walls or metal structures, on platforms, pipes, conduits and similar systems. Laying underground direct or indirect.

VARIANT: Shield in red copper or tinned copper electrolytic annealed. Armor protective metal wire, tape, braided galvanized steel wire.

FEATURES	DESCRIPTION	RULES
Conductors:	bare copper cl. 5	CEI EN 60228 (Tab 9)
Flame protector:	glass-mica tape thickness > 0,10 mm	
Insulation:	LSZH compound G10 type	CEI 20-11 - CEI EN 50363
Cores colour code:		CEI UNEL 00722 - HD 308
Identification thread:	C type	
Outer sheath:	LSZH compound M1 type	CEI 20-11 - CEI EN 50363
Sheath colour code:	blue RAL 5015	
Fire retardant:		CEI EN 50266-2-4 cat. C
Flame retardant:		CEI EN 60332-1-2
Halogen free:	(<0,5 mg/g - 0,5%)	CEI EN 50267-2-1/2 - IEC 60754-1/2
Reduced toxic gases emission:	(toxicity index <2%)	CEI 20-37/4-0
Reduced smoke emission:	(transmittance >60%)	CEI EN 61034-2
Fire resistant:	during 90 min. at 830 °C. - 0 ÷ + 40 °C	CEI EN 50200 per Ø ≤ 20 mm
Fire resistant:	during 120 min. at 830 °C. - 0 ÷ + 40 °C	CEI EN 50362 per Ø > 20 mm
Electric resistance:	according to	CEI EN 60228 (Tab 9)
Curent capability:		CEI UNEL 35024/1 - CEI UNEL 35026
Rated voltage Uo/U:	0,6/1 kV	
Max voltage:	1,2 kV	
Testing voltage:	4 kV	
Max working temperature:	90 °C	
Short circuit temperature:	250 °C	
Min. installation temperature:	0 °C	
Bending radius:	Ø x 14	
Outer printing for Ø ≤ 20 mm:	FTC / BERICA CAVI S.P.A. (VI) FTG10OM1 0,6/1 kV CEI 20-22 III cat. C CEI 20-45 PH(90) CE IEMMEQU	
	Year/Lot - Nr cores x/G sect. Prog. Metric	
Outer printing for Ø > 20 mm:	FTC / BERICA CAVI S.P.A. (VI) FTG10OM1 0,6/1 kV CEI 20-22 III cat. C CEI 20-45 F2 CE IEMMEQU	
	Year/Lot - Nr cores x/G sect. Prog. Metric	

For more information about test report see:

www.fctsecuritycables.com

FTG10OM1 0,6/1 kV CEI 20-45

Power, control and signaling cables, fire resistant, fire retardant, halogen free

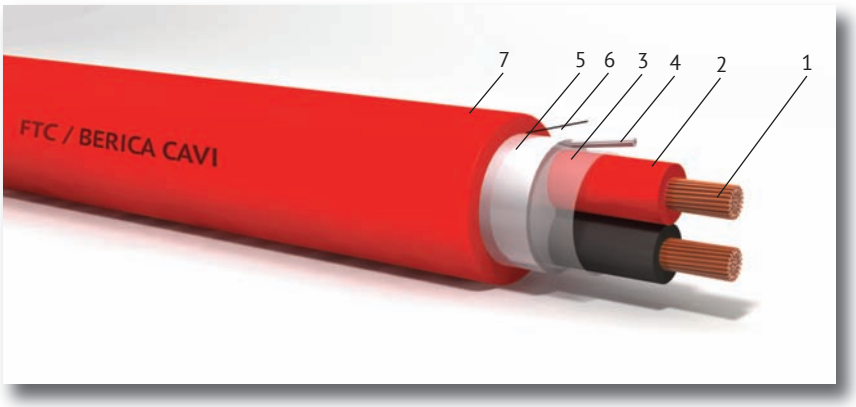
TYPE n° x mm²	MEDIUM Ø OUTER mm	MEDIUM WEIGHT kg/km	TYPE n° x mm²	MEDIUM Ø OUTER mm	MEDIUM WEIGHT kg/km
1x1,5	7,0	68	7G1,5	14,2	315
2x1,5	12,2	191	10G1,5	17,9	420
3G1,5	12,8	217	12G1,5	18,9	492
4G1,5	13,9	243	16G1,5	21,1	596
5G1,5	15,1	298	19G1,5	22,3	693
			24G1,5	25,6	880
1x2,5	7,5	78	36G1,5	30,5	1230
2x2,5	13,0	224	48G1,5	35,1	1620
3G2,5	13,9	264			
4G2,5	14,9	310	7G2,5	15,8	412
5G2,5	16,3	370	10G2,5	19,9	560
			12G2,5	21,1	650
1x4	8,0	96	16G2,5	23,6	820
2x4	14,0	274	19G2,5	25,0	930
3G4	15,0	327	24G2,5	28,8	1180
4G4	16,1	380	36G2,5	34,2	1810
5G4	17,6	477	48G2,5	39,5	2450
1x6	8,6	121			
2x6	15,2	342			
3G6	16,1	412			
4G6	17,6	489			
5G6	19,3	612			
1x10	9,9	182			
2x10	17,8	496			
3G10	18,9	614			
4G10	20,7	756			
5G10	22,8	935			
1x16	11,0	246			
2x16	20,0	673			
3G16	21,2	819			
4G16	23,4	1021			
5G16	25,7	1267			
1x25	12,8	353			
2x25	23,6	900			
3G25	25,1	1206			
4G25	27,7	1481			
5G25	31,0	1868			
1x35	13,5	457			
1x50	15,5	650			
1x70	17,5	806			
1x95	20,1	1062			
1x120	22,6	1342			
1x150	24,9	1690			
1x185	27,7	1930			
1x240	29,1	2500			

For more information about test report see:

www.fctsecuritycables.com

FG4OHM1 0,6/1 kV PH(30)

Cables for fire detectors shielded with Al/ Pet tape, fire resistant, fire retardant and halogen free



1. Conductor
2. Insulation
3. Assembling
4. Drain wire
5. Al/Pet tape
6. Wire cut-sheath
7. Outer sheath

APPLICATION: Suitable for connection between sensors and the control of fire detection systems are required when special features such as fire resistance , reduced smoke opacity, reduced emission of toxic and corrosive gases and halogen-fre .

INSTALLATION: For fixed installation indoors and outdoors. Can be installed on bridges, pipes, conduits and similar systems. Is laying underground indirect.

FEATURES	DESCRIPTION	RULES
Conductors:	bare copper cl. 5	CEI EN 60228 (Tab 9)
Insulation:	ceramizable silicon rubber	CEI 20-11 - CEI EN 50363
Cores colour code:	red and black	
Assembling:	polyester-mylar tape	
Drain wire:	tinned copper 1x0,60 mm	
Shield:	Al/Pet tape	
Wire cut-sheath:		
Outer sheath:	LSZH compound M1 type	CEI 20-11 - CEI EN 50363
Sheath colour code:	red RAL 3000	
Fire retardant:		CEI EN 50266-2-4 cat. C
Flame retardant:		CEI EN 60332-1-2
Halogen free:	(<0,5 mg/g - 0,5%)	CEI EN 50267-2-1/2 - IEC 60754-1/2
Reduced emission of toxic gases:	(toxicity index < 2%)	CEI 20-37/4-0
Reduced smoke emission:	(trasmittance > 60%)	CEI EN 61034-2
Fire resistant:	during 30 min. at 830 °C -0 ÷ +40 °C	CEI EN 50200
Electric resistance:	according to	CEI EN 60228 (Tab 9)
Rated voltage Uo/U:	0,6/1 kV	
Max voltage:	1,2 kV	
Testing voltage:	4 kV	
Max working temperature:	90 °C	
Short circuit temperature:	250 ° C	
Min. installation temperature:	0 °C	
Bending radius:	Ø x 14	
Outer printing:	FTC / BERICA CAVI S.P.A. (VI) FG4OHM1 0,6/1 kV CEI 20-22 III cat. C CEI EN 50200 PH(30) CE	
	Nr of cond. by cross section - Year/Lot - Prog. Metric	

TYPE	MEDIUM Ø OUTER mm	MEDIUM WEIGHT kg/km
2x0,50	6,1	39,0
2x0,75	6,3	49,0
2x1	7,1	61,0
2x1,5	8,0	83,0
2x2,5	9,1	107,0

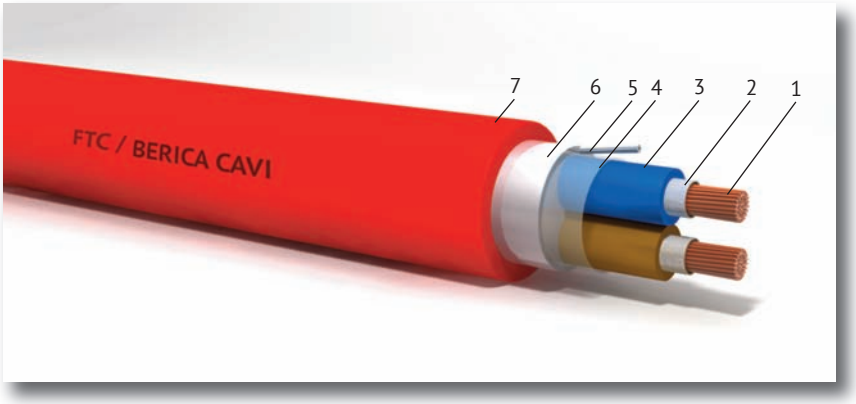
For more information about test report see:

www.fctsecuritycables.com

FTG10OHM1 0,6/1 kV

Cables for fire detectors shielded with Al/Pet tape, fire resistant, fire retardant and halogen free

1. Conductor
2. Flame protections
3. Insulation
4. Assembling
5. Drain wire
6. Al/Pet tape
7. Outer sheath



APPLICATIONS: Suitable for connection between sensors and the control of fire detection systems are required when special features such as fire resistance, reduced smoke opacity, reduced emission of toxic and corrosive gases and halogen-free.

INSTALLATION: For fixed installation indoors and outdoors. Can be installed on bridges, pipes, conduits and similar systems. Is laying underground indirect.

FEATURES	DESCRIPTION	RULES
Conductors:	bare copper cl.5	CEI EN 60228 (Tab. 9)
Flame protection:	glass-fibre tape thickness > 0,10 mm	
Insulation:	LSZH compound G10 type	CEI 20-11 - CEI EN 50363
Cores colour code:		CEI UNEL 00722 - HD 308
Assembling:	polyester-mylar tape	
Drain wire:	tinned copper 7x0,30 mm	
Shield:	Al/Pet tape	
Outer sheath:	LSZH compound M1 type	CEI 20-11 - CEI EN 50363
Sheath colour code:	red RAL 3000	
Fire retardant:		CEI EN 50266-2-4 cat. C
Flame retardant:		CEI EN 60332-1-2
Halogen free:	(< 0,5 mg/g - 0,5%)	CEI EN 50267-2-1/2 - IEC 60754-1/2
Reduced emission of toxic gases:	(toxicity index < 2%)	CEI 20-37/4-0
Reduced smoke emission:	(trasmittance > 60%)	CEI EN 61034-2
Fire resistant:	90 min. at 830 °C -0 ÷ + 40 °C)	CEI EN 50200
Electric resistance:	according to	CEI EN 60228 (Tab 9)
Rated voltage Uo/U:	0,6/1 kV	
Max voltage:	1,2 kV	
Testing voltage:	4 kV	
Max working temperature:	90 °C	
Short circuit temperature:	250 °C	
Min. installation temperature:	0 °C	
Bending radius:	Ø x 14	
Outer printing:	FTC / BERICA CAVI S.P.A. (VI) FIRE RESISTANT ALARM CEI 20-22 III cat. C CEI EN 50200 PH 90 CE 0,6/1 kV	
	Nr of cond. by cross section - Year/Lot - Prog. Metric	

TYPE n° x mm²	MEDIUM Ø OUTER mm	MEDIUM WEIGHT kg/km
2x1	8,9	82
3x/G1	9,4	90,2
4x/G1	10,5	115
5x/G1	11,7	151
7x/G1	12,8	176
2x1,5	9,7	100
3x/G1,5	10,3	116
4x/G1,5	11,5	145,3

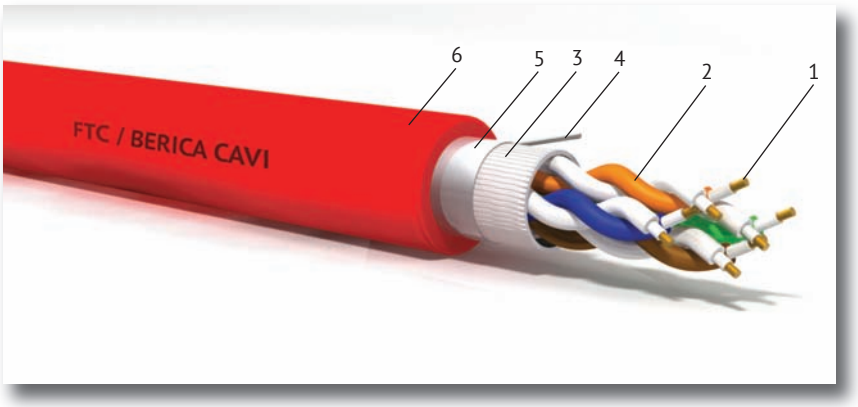
TYPE n° x mm²	MEDIUM Ø OUTER mm	MEDIUM WEIGHT kg/km
5x/G1,5	12,8	184,1
7x/G1,5	13,9	227,6
2x2,5	10,9	140
3x/G2,5	11,5	187
4x/G2,5	12,9	235
5x/G2,5	14,3	285
7x/G2,5	15,6	370

For more information about test report see:

www.fctsecuritycables.com

FTP-UTP 4x2x22 AWG FR

Cables for data transmission, fire resistant



1. Conductor
2. Insulation
3. Flame barrier
4. Drain wire
5. Shield
6. Outer sheath

APPLICATION: Used to transmit data at high frequency when there is a need to ensure signal transmission even in the presence of a fire.

INSTALLATION: For fixed installation inside, without protection or in pipes, embedded or closed systems

FEATURES	DESCRIPTION	RULES
Conductors:	bare copper 0,63 mm (22AWG)	
Insulation 1:	polyethilene	
Insulation 2:	ceramizable silicon rubber	
Cores colour code:	white/blue - white/orange - white/green - white/brown	
Fame barrier:	glass tape	
Drain wire:	tinned copper 7x0,30 mm	
Shield:	Al/Pet tape	
Outer sheath:	LSZH compound M1 type	
Sheath colour code:	red RAL 3000	
Flame retardant:		CEI EN 60332-1-2
Fire resistant:	during 30 min. at 830 °C (0 ÷ +40 °C)	CEI EN 50200
Elctric resistance:	< 190 Ω/km (loop)	CEI EN 50288-2-1/3-1
Characteristic impedance:	100 ± 5Ω a 100 MHz	
Testing voltage:	700 Vac x 1 min.	
Max working temperature:	70 °C	
Min. installation temperature:	0 °C	
Bending radius:	Ø x 8	
Outer printing (FTP):	FTC / BERICA CAVI S.P.A. (VI) FTP 4x2x22AWG FR 100 OHM Year/Lot - Prog. metric	
Outer printing (UTP):	FTC / BERICA CAVI S.P.A. (VI) UTP 4x2x22AWG FR 100 OHM Year/Lot - Prog. metric	

TYPE	MEDIUM Ø OUTER mm	MEDIUM WEIGHT kg/km
FTP 4x2x22AWG	10,2	108
UTP 4x2x22 AWG	10,0	105

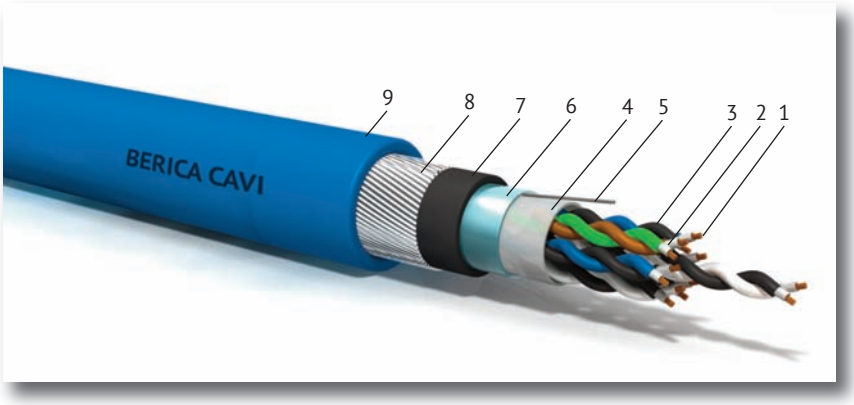
For more information about test report see:

www.fctsecuritycables.com

RTE4XOHM1FM1 300/500 V BS 5308-1 TYPE 2
(CU/MGT/XLPE/OSCR/LSZH/SWA/LSZH-MGT/2X(St)HRH)

Instrumentation cables halogen free, fire resistant, shielded and steel wires armoured

1. Conductor
2. Glass-mica tape
3. Insulation
4. Assembling
5. Drain wire
6. Shield
7. Inner sheath
8. Armouring
9. Outer sheath



APPLICATION: Circuits used in instrumentation in refineries, petrochemical and oil deposits when it is necessary to ensure signal transmission during a great fire.

INSTALLATION: For fixed installation indoors and outdoors. Can be installed on bridges, pipes, conduits and similar systems. It is laying underground.

VARIATIONS: steel braid armor - armor steel belts.

FEATURES	DESCRIPTION	RULES
Conductor:	bare copper class 2-5	BS 6360
Flame protection:	glass - mica tape thickness > 0,10 mm	
Insulation:	XLPE crosslinked polyethylene type GP8	BS 7655
Cores colour code:		BS 5308-1
Assembling:	polyester-mylar tape	
Drain wire:	fine wires stranded of tinned copper 7x0,30 mm	
Shield:	Al/Pet 25/23 µm tape	
Inner sheath:	LSZH compound M1 type	CEI EN 50363
Armouring:	steel wires helically wound	
Outer sheath:	LSZH compound M1 type	CEI EN 50363
Sheath colour code:	blue RAL 5015 - black RAL 9005	
Flame retardant:		CEI EN 60332-1-2
Fire resistant:	3 h at 750 °C	IEC 60331-21
Electric resistance:	according to	BS 5308-1
Rated voltage Uo/U:	300/500 V	
Testing voltage:	1000 V	
Max working temeprature:	80 °C	
Min installation temeprature:	0 °C	
Bending radius:	Ø x 14	
Outer sheath:	FTC / BERICA CAVI S.P.A. (VI) RTE4XOHM1FM1 300/500 V CEI EN 60331-21 Nr Cores x Sect.	
	Year/Lot Prog. Metric	

TYPE (*) Nr. x mm²	MEDIUM Ø OUTER mm	MEDIUM WEIGHT kg/km
1P x 1,5	13,3	335
2P(Q) x 1,5	14,7	417
5P x 1,5	20,9	1126
10P x 1,5	31,0	1695
1T x 1,5	13,8	373
1P x 2,5	14,6	396
2P(Q) x 2,5	16,6	533
5P x 2,5	27,7	1424

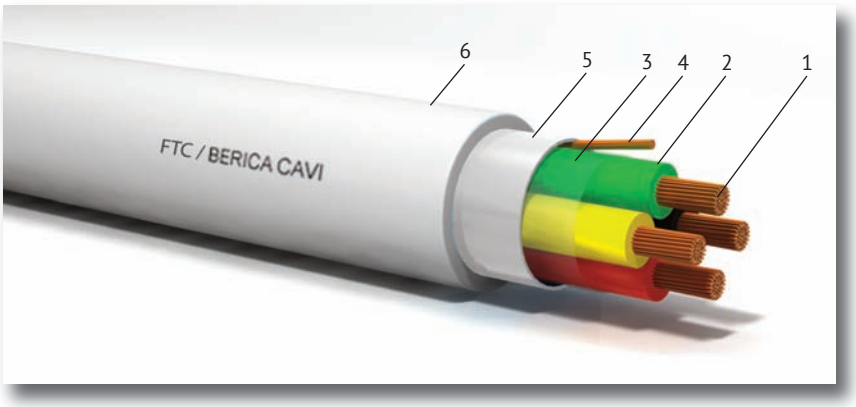
(*) P=Pair T=Third Q=Fourth

For more information about test report see:

www.fctsecuritycables.com

ALARM CABLE LS0H
RED COPPER SCREENED

Cables for security systems



1. Conductor
2. Insulation
3. Assembling
4. Drain wire
5. Al/Pet tape
6. Outer sheath

APPLICATION: Used for connections in intrusion detection systems.

INSTALLATION: For fixed installation in ordinary or damp environment in and outside temporarily. They can be installed on platforms, pipes, conduits, and similar systems. It is not for laying underground.

FEATURES	DESCRIPTION	RULES
Conductors:	bare copper cl. 5	
Insulation:	polyethylene	
Cores colour code:	alarm colour (Tab 1) - red and black (supply)	
Assembling:	polyester-mylar tape	
Drain wire:	bare copper 7x0,18 mm	
Shield:	Al/Pet tape	
Outer sheath:	LSZH compound M1 type	CEI 20-11 - CEI EN 50363
Sheath colour code:	withe RAL 9010 and red RAL 3000	
Halogen free:	(<0,5 mg/g - 0,5%)	CEI EN 50267-2-1/2 - IEC 60754-1/2
Rated voltage Uo/U:	300/300 V	
Max voltage:	330 V	
Testing voltage:	2000 V	
Max working temperature:	70 °C	
Short circuit temperature:	160 ° C	
Min. installation temperature:	0 °C	
Bending radius:	Ø x 8	
Outer printing:	on request	

TYPE n° x mm²	MEDIUM Ø OUTER mm	MEDIUM WEIGHT kg/km
2x0,22	3,30	15
4x0,22	3,70	21
6x0,22	4,30	27
8x0,22	4,50	32
10x0,22	5,30	39
12x0,22	5,50	44
14x0,22	5,70	50
16x0,22	6,00	55
20x0,22	6,30	66
24x0,22	7,30	78
30x0,22	7,70	93
2x0,50+2x0,22	4,40	29
2x0,50+4x0,22	5,00	35
2x0,50+6x0,22	4,30	37

TYPE n° x mm²	MEDIUM Ø OUTER mm	MEDIUM WEIGHT kg/km
2x0,50+8x0,22	5,60	46
2x0,50+10x0,22	6,30	52
2x0,50+12x0,22	6,50	57
2x0,75+2x0,22	4,90	35
2x0,75+4x0,22	5,40	41
2x0,75+6x0,22	5,60	46
2x0,75+8x0,22	5,80	51
2x0,75+10x0,22	6,70	61
2x0,75+12x0,22	6,90	66
2x0,75+ 14x0,22	7,10	71
2x0,75+16x0,22	7,50	77
2x0,75+18x0,22	7,80	86
2x0,75+20x0,22	7,90	93
2x0,75+30x0,22	9,10	117

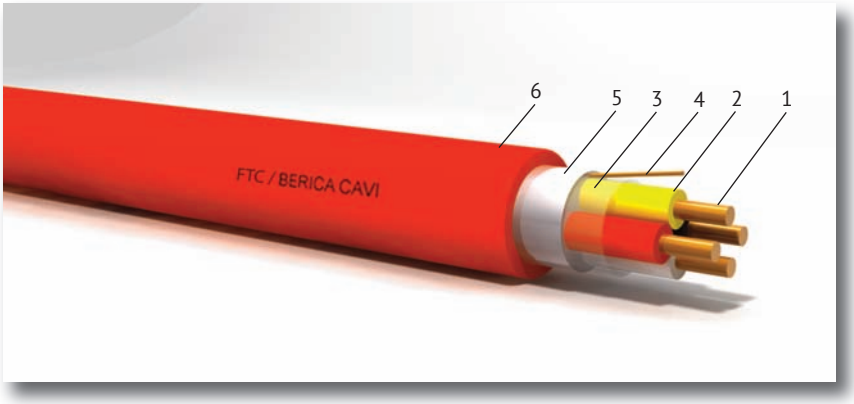
For more information about test report see:

www.fctsecuritycables.com

J-H(ST)H
BRANDMELDEKABEL LS0H

Cables for security systems

1. Conductor
2. Insulation
3. Assembling
4. Drain wire
5. Al/Pet tape
6. Outer sheath



APPLICATIONS: Used for connections in intrusion detection systems and fire detection systems.

INSTALLATION: For fixed installation indoors and outdoors. Can be installed on bridges, pipes, conduits and similar systems.
Is laying underground indirect.

FEATURES	DESCRIPTION	RULES
Conductors:	bare copper cl.1	
Insulation:	polyethylene	
Cores colour code:	2x(red-blue), 4x(white-red-yellow-black), 3x2x(red/blue - white/yellow - white/green),	
	4x2x(red/blue - white/yellow - white/green - white/brown)	
Assembling:	polyester-mylar tape	
Drain wire:	bare copper 1x0,50 mm	
Shield:	Al/Pet tape	
Outer sheath:	LS0H compound M1 type	CEI 20-11 - CEI EN 50363
Sheath colour code:	red RAL 3000	
Halogen free:	(< 0,5 mg/g - 0,5%)	CEI EN 50267-2-1/2 - IEC 60754-1/2
Rated voltage Uo/U:	300/300 V	
Max voltage:	330 V	
Testing voltage:	2000 V	
Max working temperature:	70 °C	
Short circuit temperature:	160 °C	
Min. installation temperature:	0 °C	
Bending radius:	Ø x 8	
Outer printing:	FTC / BERICA CAVI S.P.A. (VI) J-H(ST)H n° x Ø mm BRANDMELDEKABEL Year/Lot	

TYPE	MEDIUM Ø OUTER mm	MEDIUM WEIGHT kg/km
1x2x6/10	3,8	22
4x6/10	4,4	31
3x2x6/10	5,3	41
4x2x6/10	6,0	51
1x2x8/10	4,8	31
4x8/10	4,9	42
3x2x8/10	6,7	61
4x2x8/10	7,4	74

For more information about test report see:

www.fctsecuritycables.com

Factory: **Fabbrica Trentina Conduttori s.r.l**
Z.I. Pineta Via Pineta 21/B - 38068 Rovereto (TN) - Italy
Tel. +39 0464 - 480897 - Fax. +39 0464 - 487700
info@fctsecuritycables.com
www.fctsecuritycables.com