

FIRE ALARM

SYSTEM CABLES 105 °C, OVERALL SHIELDED



TECHNICAL FEATURES

Conductor:	Solid bare copper wire
Insulation:	Polyvinyl Chloride (PVC) 105°C
Sheath material:	Flame retardant Polyvinyl Chloride (PVC) Colour Red
Drain wire:	Tinned copper
Shield:	Aluminium/Polyester 100% coverage
Standards:	IEC 60332-1 - IEC 60332-3-24
Core colours identification:	black, red

APPLICATION

Fire detection alarm cable, shielded, suitable for fire alarm systems, smoke alarms, voice communications and berglar alarms. Manufactured with flame retardant insulation and up to 105°C working temperature.

SPECIAL FEATURES

Flame retardant CEI 20-35 / EN 60332-1
lead Free CEI 20-52

REMARKS

Conform to RoHS
CE acc. to EC Low-Voltage Directive 73/23/EEC and 93/68/EEC
Standard put up: 305 meters drums

Physical characteristics

ITALICAB part number		ITAL054	ITAL055	ITAL056	ITAL057
No. of cores	num	2c	2c	2c	2c
Conductor size	AWG	18	16	14	12
Conductor stranding	n.xmm	1x1,02	1x1,30	1x1,62	1x2,05
Conductor stranding	n.awg	1x18	1x16	1x14	1x12
Drain wire size	AWG	24	24	24	24
Drain wire stranding	n.xmm	7x0,20	7x0,20	7x0,20	7x0,20
Drain wire stranding	n.awg	7x32	7x32	7x32	7x32
Nom. Diameter of copper conductor	mm	1,02	1,30	1,62	2,05
Insulation material	type	PVC 105	PVC 105	PVC 105	PVC 105
Nom. Radial Thickness insulation	mm	0,40	0,40	0,50	0,60
Shield	Yes/No	Yes	Yes	Yes	Yes
Individual shield	Yes/No	No	No	No	No
Screen (braid)	Yes/No	No	No	No	No
Sheath material	type	PVC TM2	PVC TM2	PVC TM2	PVC TM2
Overall diameter of conductor	mm	1,90	2,20	2,55	3,25
Nom. Radial sheath thickness	mm	0,80	0,80	0,80	1,10
Nom. overall outer diameter	mm	5,90	6,50	7,20	8,90

Electrical Characteristics

Max. DC Resistance conductor at 20°C	Ω/km	22	14,5	9,10	5,30
Max. DC Resistance shield	Ω/km	52,7	52,7	52,7	52,7
Capacitance conductor to conductor	pF/m	165	189	192	216
Capacitance cond. to other cond.+shield	pF/m	312	358	358	424
Nominal inductance	μH/m	0,30	0,60	0,60	0,60
Max. recommended Current at 25°C	Amps	5,30	11,00	18,00	24,00
Max. operating voltage	Vrms	300	300	300	300

Miscellaneous

Operating temperature	°C	-40 / +105	-40 / +105	-40 / +105	-40 / +105
Max. recommended pulling tension	N	80	130	200	325
Min. bending radius (install)	mm	57	64	77	86
Nominal cable weight	kg/km	20	30	45	65