

FIRE ALARM

SYSTEM CABLES 105°C, UN-SHIELDED



TECHNICAL FEATURES

Conductor:	Solid bare copper wire
Insulation:	Polyvinyl Chloride (PVC) 105°C
Sheath material:	Flame retardant Polyvinyl Chloride (PVC) Colour Red
Standards:	IEC 60332-1 - IEC 60332-3-24
Core colours identification:	black, red

APPLICATION

Fire detection alarm cable, un-shielded, suitable for fire alarm systems, smoke alarms, voice communications and burglar 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		ITAL050	ITAL051	ITAL053	ITAL052
ITALICAB part number					
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	No	No	No	No
Drain wire stranding	n.xmm	No	No	No	No
Drain wire stranding	n.awg	No	No	No	No
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	No	No	No	No
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 shetah thickness	mm	0,80	0,80	0,80	0,80
Nom. overall outer diameter	mm	5,50	6,00	6,70	8,80
Electrical Characteristics					
Max. DC Resistance conductor at 20°C	Ω/km	22	14,5	9,10	5,30
Max. DC Resistance shield	Ω/km	//	//	//	//
Capacitance conductor to conductor	pF/m	65	140	72	75
Capacitance cond. to other cond.+shield	pF/m	//	//	//	//
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	60	77	86
Nominal cable weight	kg/km	19	28	43	62

The data and sketches of this technical leaflet are not binding and can be varied as a consequence of modifications and/or improvements deemed necessary by the manufacturer. Tolerances on weights and diameters ± 5%.