

FIRE RESISTANT CABLES

OVERALL SHIELDED

CONFORMING TO BS 6387 CWZ EN 50200



TECHNICAL FEATURES

Conductor:	Solid bare copper wire
Insulation:	High performance ceramifiable Silicone Rubber
Drain wire:	Tinned copper
Shield:	Aluminium/Polyester 115% coverage
Sheath material:	Halogen-free, flame retardant LSOH, Colour Red
Standards:	IEC 60332-1 - IEC 60332-3-24 / EN50200 / BS 6387
Core colours identification:	black, red

APPLICATION

Fire performance power cable, suitable for fire alarm systems and emergency lighting, designed to maintain circuit integrity under fire conditions according to BS6387 Categories C, W & Z: up to 950°C

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 Directory 73/23/EEC and 73/23/EEC and 93/68/EEC
Standard put up: 305 meters drums

BMS - BUILDING MANAGEMENT SYSTEM CABLES

Physical characteristics		ITAL080	ITAL081	ITAL082	ITAL083	ITAL084
ITALICAB part number		ITAL080	ITAL081	ITAL082	ITAL083	ITAL084
No. of cores	num	2c	2c	2c	2c	2c
Conductor size	mm ²	0,75	1,00	1,50	2,50	4,00
Conductor stranding	n.xmm	1x0,98	1x1,13	1x1,38	1x1,75	7x0,83
Drain wire size	mm ²	0,75	1,00	1,50	2,50	4,00
Drain wire stranding	n.xmm	1x0,98	1x1,13	1x1,38	1x1,75	7x0,83
Nom. Diameter of copper conductor	mm	0,98	1,13	1,38	1,75	2,60
Insulation material	type	Silicone	Silicone	Silicone	Silicone	Silicone
Nom. Radial Thickness insulation	mm	0,70	0,70	0,80	0,80	1,00
Shield	Yes/No	Yes	Yes	Yes	Yes	Yes
Individual shield	Yes/No	No	No	No	No	No
Screen (braid)	Yes/No	No	No	No	No	No
Sheath material	type	LSOH	LSOH	LSOH	LSOH	LSOH
Overall diameter of conductor	mm	1,90	2,50	3,00	3,50	4,50
Nom. Radial sheath thickness	mm	0,90	0,90	0,90	1,10	1,10
Nom. overall outer diameter	mm	7,50	7,80	8,70	9,90	12,00
Electrical Characteristics						
Max. DC Resistance conductor at 20°C	Ω/km	24,5	18,1	12,10	7,41	4,61
Min. insulation resistance	Ω/km	200	200	200	200	200
Max. recommended Current at 25°C	Amps	12	18	21	30	40
Max. operating voltage	Vrms	300/500	300/500	300/500	300/500	300/500
Miscellaneous						
Operating temperature (3h950°C)	°C	-40 / +105	-40 / +105	-40 / +105	-40 / +105	-40 / +105
Max. recommended pulling tension	N	205	265	405	670	1250
Min. bending radius (install)	mm	75	78	87	99	120
Nominal cable weight	kg/km	67	75	100	143	201

FIRE TEST to BS 6387	test applied
resistance to Fire alone	BS 6387 D 2 3 hours
fire test category (A=650°C; B=750°C; C=950°C) for 20 min	BS 6387 D 2 C
resistance to Fire with Water	BS 6387 D 2 30 min
category W at 650°C for 30 mins, 15 min of water	BS 6387 D 2 W
resistance to fire with mechanical shock (one shock every 30 sec)	BS 6387 D 2 15 min
category X at 650°C; Y=750°C; Z=950°C	BS 6387 D 2 Z
RESISTANCE TO FIRE CEI EN 50200	
resistance to fire with mechanical shock (one shock every 5 min)	EN 50200 OK
category (PH15; PH30; PH60; PH90; PH120) temperature 842°C	EN 50200 30 min PH30
resistance to fire with water and shock (one shock every 5 min)	EN 50200-E 30 min
category (temperature 842°C, 15 min of water)	EN 50200-E OK