# WCAT52

## 2 pairs, FTP LAN cable, Category 5e (Enhanced), reels of 500 m

Cabling for transport of different types of information: LAN, traditional and digital telephony (ISDN), video images, alarms and controls.

### Certification

In addition to a very high standard of workmanship needed to meet the latest international standards, which establish the rules for the wiring of commercial buildings, the connections in a network must guarantee the utmost flexibility and universality. They must be able to support the widest range of current and future protocols.

As a result, the transmission media must be specifically designed to meet these requirements. In this area, they have also taken on a very important role in gaining certification for these cables, from both SGS and independent laboratories, that is recognised at national and international levels.

### Category 5 "enhanced" cable, tested up to 200 MHz

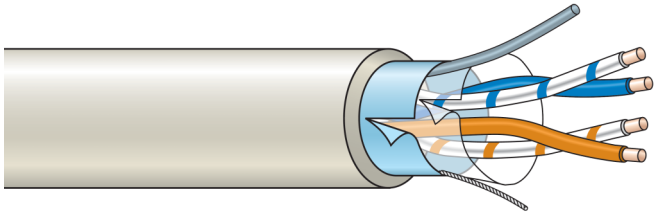
The idea of this new cable category, which has transmission tested up to 200 MHz, is that these cables can be used for high bit-rate data networks with greater flexibility and availability than ordinary Category 5 cables.

In addition, they are characterised by a level of immunity which permits good transmission in even the most severe AMC environments and which complies with all types of application with radiation limits.

When the ACR (Attenuation to Crosstalk Ratio) is insufficient, problems may arise due to high frequency EMC performances and insufficient return losses.

### WCAT used with Advisor Master

When WCAT cable is used with the Advisor Master systems, the rules with respect to maximum length of the databus and the databus topology should be respected. See installation manuals for more details.



### Details

- 2 x 2 x AWG 24/1 FTP, category 5, enhanced
- Recommended for: - Advisor Masters panels - Networked fire panels and repeaters
- Certified by SGS for the compliance to the ISO/IEC 11801 (certification n°30.35.94.203/4)

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## Technical specifications

### Shielding

| | |
|---|---|
| Shielded | Yes |
| Shield | 1 tinned copper D.W.26/1 AWG + AL/PET tape |
| Insulation type | Solid |

### Core

| | |
|---|---|
| Conductor size | 0.52 mm² |
| Conductor material | Bare copper AWG 24/1 |
| Wire colours | White-blue+blue, White-orange+orange |

### Jacket

| | |
|---|---|
| Jacket colour | Grey - RAL 7032 |
| Jacket material | F.R. PVC |

### Electrical Characteristics

| | |
|---|---|
| Nominal velocity of propagation | 74 % |
| Max. propagation delay | 4.8 nsec/m |
| Max. propagation delay skew | 0.10 nsec/m |
| Test voltage | 700 VAC per 1 min |
| Max. rating voltage | 125 V (not for power purposes) |
| Insulation resistance | 2 Gohm/km |
| Max.conductor DC resistance | 16.8 ohm/100 m @ +20°C |
| Nominal (mutual) capacitance | 47 pF/m @ 1 kHz |
| Max. capacitance unbalanced | 100 pF/100 m @ 1 kHz |
| Characteristic impedance | 100 ±15 ohm |
| Structural return loss | 25 db @ 20 MHz, 23 dB @ 100 MHz, 20 db @ 200 MHz |

### Physical

| | |
|---|---|
| Cable length | 500 m |
| No. of wires | 4 |
| Min. bend radius | 42 mm |
| Max. pull strength | 10 kg |
| Outer dimensions | 5.20 mm |
| Weight | 30 kg/km |

### Environmental

| | |
|---|---|
| Halogen free | No |
| Operating temperature | -20 to +75°C |
| Heat release | 507 MJ/km |

As a company of innovation, Kidde Global Solutions reserves the right to change product specifications without notice. For the latest product specifications, visit firesecurityproducts.com online or contact your sales representative.

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