

J2Y(St)H...Bd

PE INSULATED, HALOGEN-FREE INSTALLATION CABLE FOR COMMUNICATIONS



APPLICATION: These halogen-free cables are connection for computer peripherals, visual display units and printers. Transmission of data up to 16 Mbit/s, suitable for ISDN applications. The use of installation cables for power cable applications or for underground installation is not permitted. These cables are used at schools, airports, hospitals, etc. and in the environments which have no corrosive gases are emitted in the event of fire. In case of fire, these cables inhibit the propagation of the flames whereby the development of smoke is extremely low.

CABLE DESIGN

Conductor	: Solid annealed copper
Insulation	: Solid PE compound
Core identification	: IEC 708
Lay-up	: Star quads, each 5 star quads stranded in a units, each unit laid up in layers
Separator	: Polyester tape
Screen	: With drain wire under the aluminium foil
Outer Sheath	: HFFR compound, HM2, VDE 0207-24
Sheath Colour	: RAL 7001, Grey

* Core identification differs from VDE 0815

HFFR: Halogen-free flame retardant

* Cables with 2 pairs laid up as a star quad:

TECHNICAL DATA

Standard	: VDE 0815
Conductor resistance (loop)	: 0,60 mm ² = 130 Ω/km
Characteristic impedance	: 4~16 MHz : 100 ± 15 Ω
Insulation resistance	: > 5000 M Ω.km
Mutual Capacitance (800 Hz)	: Max. 52 nF/km
Capacity Unbalanced (k ₁)	: Max. 400 pF / 300 mt
Operating voltage, peak	: Max. 225 V
Test voltage (AC 50 Hz)	: Core/core : 1000 V Core/screen : 2000 V
Temperature range	: Fixed : - 30 °C ~ + 70 °C Mobile: - 5 °C ~ + 50 °C
Min. Bending radius	: 10 x D
Flame test	: IEC 60332-3 & TS/DIN EN 50266-2-4
Smoke density test	: IEC 61034-2 & TS/DIN EN 61034-2
Halogen-free properties test	: IEC60754-1/2 & TS/DIN EN 50267-2

Cross Sections

Part-number	No. of pairs x Conductor Diameter (mm)	Approx. Outer Diameter (mm)	Copper Weight (Kg/km)	Approx. Cable Weight (Kg/km)
1952 03 002	*2x2x0,60	5,1	13	45
1952 03 004	4x2x0,60	6,9	24	70
1952 03 006	6x2x0,60	8,2	35	85
1952 03 008	8x2x0,60	8,5	46	100
1952 03 010	10x2x0,60	8,9	58	120
1952 03 020	20x2x0,60	12,8	116	210
1952 03 030	30x2x0,60	13,8	172	300
1952 03 040	40x2x0,60	15,4	227	375
1952 03 050	50x2x0,60	17,1	285	445
1952 03 060	60x2x0,60	18,9	341	525
1952 03 080	80x2x0,60	21,8	455	710
1952 03 100	100x2x0,60	24,2	568	870