

## ISDN Indoor Cables following DIN VDE 0815/0816 J-2Y(St)Y / H ...x2x0,6 STIII Bd

### Core lay up

<b>Conductor</b>	Solid bare copper wire, 0.6 mm Diameter.
<b>Insulation</b>	Solid PE (2Y). Wall thickness 0.25 mm (nominal value)
<b>Stranding</b>	5 quads stranded to sub units. Cables up to 100 pairs are build up with sub units stranded in concentrical layers.
<b>Core wrapping</b>	Plastic foils
<b>Screen</b>	Screen of Aluminum-laminated plastic foil with a tinned ground wire 0.6 mm.
<b>Sheath</b>	PVC- (Y) or FRNC-Sheath (H) gray, Ral 7032. Wall thickness acc. to VDE 0815.

### Identification

<b>Quads</b>	The single core is identified by a black ring marking.  a-core: without marking b-core: 1 mark distance 17 mm c-core: 2 marks distance 34 mm d-core: 2 marks distance 17 mm
<b>Subunit</b>	The quads of one single subunit are identified by colour code.  1. quad basic colour red 2. quad basic colour green 3. quad basic colour grey 4. quad basic colour yellow 5. quad basic colour white  The reference unit in each layer is marked by a red binder, all other units by a white binder.
<b>Sheath</b>	DRAKA COMTEQ, Cable type Colour black

### Mechanical Properties

Bending radius during installation / without load:	min. 4,5 x D
Bending radius during laying / with load:	min. 10 x D
D = Cable outer diameter	
Temperature range:	
- laying	-20°C upto +50°C
- transport storage, operation	up to +70°C

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The right to alterations reserved

#### Electrical Properties at 20 EC

DC loop resistance	max. 130 Ω/km
Insulation resistance	min. 5 GΩ*km
Test voltage (1 min)	
core/core	800 V
core/screen 2000 V	
Mutual capacitance (1 kHz)	≤ 52 nF/km
Capacitance unbalance (1 kHz)	
k <sub>1</sub>	≤ 300 pF/300 m
k <sub>9..12</sub>	≤ 800 pF/300 m
e	≤ 1500 pF/km
Characteristic impedance	
4 up to 16 MHz	approx. 100 Ω
Attenuation (Nominal value) at	
1 MHz	35 dB/km
4 MHz	55 dB/km
10 MHz	73 dB/km
16 MHz	86 dB/km
Near end cross talk (Nominal value)	
(Test length \$ 300 m)	
1 up to 4 MHz	32 dB
4 up to 16 MHz	23 dB

#### Technical Data

Product code	pairs	Outer diameter mm	Weight kg/km	Standard length m	Drum size	Gross weight kg	Copper content kg/km	Tensile force N
<b>J-2Y(St)Y ...x2x0.6 STIII BD</b>								
CD2717001	2	5.7	46	2000	71	71	13	80
CD2717101	4	6.9	66	2000	91	113	24	150
CD2717201	6	7.8	85	2000	91	132	35	180
CD2717301	10	9.3	122	2000	91	169	58	300
CD2717401	20	12.1	204	1000	91	251	116	500
CD2717501	30	14.6	298	1000	101	369	172	900
CD2717601	40	16.3	375	1000	121	519	229	1200
CD2717701	50	17.9	451	1000	121	595	286	1500
CD2717801	60	18.5	520	1000	121	664	342	1800
CD2717901	80	19.7	660	1000	121	804	455	2400
CD2718001	100	20.9	802	1000	121	946	568	3000

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Product code	pairs	Outer diameter mm	Weight kg/km	Standard length m	Drum size	Gross weight kg	Copper content kg/km	Tensile force N
<b>J-2Y(St)H ...x2x0.6 STIII BD (...01 = FRNC-C; ...02 = FRNC-B)</b>								
CD7617001	2	5.7	46	2000	71	71	13	80
CD7617102	4	6.9	66	2000	91	113	24	150
CD7617201	6	7.8	85	2000	91	132	35	180
-	10	9.3	122	2000	91	169	58	300
-	20	12.1	204	1000	91	251	116	500
-	30	14.6	298	1000	101	369	172	900
-	40	16.3	375	1000	121	519	229	1200
CD7617701	50	17.9	451	1000	121	595	286	1500
CD7617802	60	18.5	520	1000	121	664	342	1800
-	80	19.7	660	1000	121	804	455	2400
CD7618001	100	20.9	802	1000	121	946	568	3000
CD76 180 02	100	20.9	802	1000	121	946	568	3000