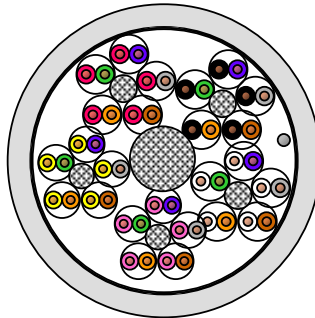




## Central office Cable acc. to Cat 5e U/UTP

### S-2YY/H 25/50/100x2x0.52 (AWG 24)



### Application

IEEE 802.3: 10Base-T; 100Base-T; ISDN; xDSL  
IEEE 802.5 16 MB; ISDN; TPDDI; ATM155Mbit/s

### Standards

EN 50173, ISO/IEC 11801

### Flame resistance

PVC IEC 60332-1  
LSOH IEC 60332-1; IEC 60754-2; IEC 61034

### Construction

Conductor	Bare copper wire, diameter 0.52 mm (AWG24)	
Insulation	PE, diameter 0.95 mm	
Twisting	2 cores to pair, diameter 1.9 mm	
Sub unit stranding	5 pairs to subunit + filler, diameter 5.0 mm	
Main unit stranding	5 subunits to a 25" unit + filler PET foil wrapping	
Identification	Pair 1 – 5: a-Core wt; Pair 6 – 10: a-Core rd; Pair 11 – 15: a-Core bk; Pair 16 – 20: a-Core ye; Pair 21 – 25: a-Core vi;	b-Core bl, or, gn, br, gr b-Core bl, or, gn, br, gr b-Core bl, or, gn, br, gr b-Core bl, or, gn, br, gr b-Core bl, or, gn, br, gr
Sheath	Binding tapes of main units: bl, or, gn, br PVC or LSOH, diameter 15.5 mm grey, RAL 7035	
Printing	DRAKA COMTEQ S-2YY 25x2xAWG24 CAT5e + meter marking+ batch number	

### Mechanical properties

Minimum bending radius	without load	≥ 60 mm
	with load	≥ 120 mm
Temperature	during operation	- 20° C to + 60° C
	during installation	0° C to + 50° C



## Central office Cable acc. to Cat 5e U/UTP

### Electrical properties

at 20°C

Loop resistance		≤ 192 Ω/km
Resistance unbalance		≤ 2%
Test voltage	core/core	1000 V <sub>DC</sub> 1 min
	core/screen	1000 V <sub>DC</sub> 1 min
Mutual capacitance	800 Hz	Nom. 48 nF/km
Capacitance unbalance	pair/ground	≤ 1500 pF/km
Characteristic impedance	1 – 100 MHz	100 Ω ± 15 Ω
Nominal velocity of propagation		ca. 67%
Insulation resistance	500 V	≥ 2000 MΩ*km

### Electrical data

at 20°C

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100m)	PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB)
1	1.9	71	68	69.1	66.1	68	65	20
4	3.7	62	59	58.3	55.3	56	53	23
10	6.0	56	53	50.0	47.0	48	45	25
16	7.6	53	50	45.4	42.4	44	41	25
20	8.5	51	48	42.5	39.5	42	39	25
31.2	10.7	49	46	38.3	35.3	38	35	24
62.5	15.7	44	41	28.3	25.3	32	29	22
100	19.8	41	38	21.2	18.2	28	25	20
125	22.3	40	37	17.7	14.7	26	23	19

### Technical data

Product code	Designation	Type	Outer diameter mm	Fire load		Weight kg/km	Copper content	Tensile force N
				MJ/km	KWh/m			
CS2784700	S-2YY	25x2x0.52 Cat.5e	15.5	2390	0.664	190	120	500
CS27...	S-2YY	50x2x0.52 Cat.5e	27.5	4802	1.056	380	240	1000
CS27...	S-2YY	100x2x0.52 Cat.5e	32.5	9640	2.677	770	485	2000
CS7684700	S-2YH	25x2x0.52 Cat.5e LSOH	15.5	2250	0.664	190	120	500
CS7684800	S-2YH	50x2x0.52 Cat.5e LSOH	27.5	4502	1.250	380	240	1000
CS76...	S-2YH	100x2x0.52 Cat.5e LSOH	32.5	9520	2.644	770	485	2000

### Ordering info

El. No.	Designation	Type	Colour	DCD No.	DCN No.
On request	S-2YH	25x2x24AWG Cat. 5e LSOH	Grey, RAL7035	DCD60031-00001DW	On request
On request	S-2YH	50x2x24AWG Cat. 5e LSOH	Grey, RAL7035	DCD60032-00001DW	On request
On request	S-2YH	100x2x24AWG Cat. 5e LSOH	Grey, RAL7035	On request	On request