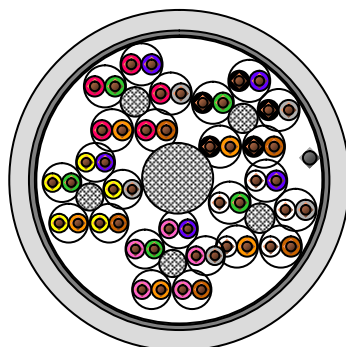


S-2Y(St)Y/H 25/50/100x2x0.52 (AWG 24)

F/UTP symmetrical Data Cable acc. to Cat. 5e



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, IEC 56-5

Flame resistance

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

Construction

Conductor	Bare copper wire, Ø 0.52 mm (AWG24), 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, diameter 13.0 mm	
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 Binding tapes of main units: bl, or, gn, br
Screen	Al –laminated plastic foil, drain wire AWG 26, diameter 13.0 mm	
Sheath	PVC or FRNC, diameter 15.5 mm grey, RAL 7035	
Printing	DRAKA COMTEQ S-2Y(St)Y 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



S-2Y(St)Y/H 25/50/100x2x0.52 (AWG 24)

Electrical properties

at 20°C

Loop resistance		≤ 190 Ω/km
Resistance unbalance		≤ 2%
Test voltage	core/core	1000 V _{DC} 1 min
	core/screen	1000 V _{DC} 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
Relative Velocity ratio		ca. 67%
Transfer impedance	1 MHz	≤ 50 mΩ/m
	10 MHz	≤ 100 mΩ/m
	30 MHz	≤ 200 mΩ/m
Insulation resistance	500 V	≥ 2000 MΩ*km

Electrical data (nominal)

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			
CPR BAAN								
1003300 CS2784500	S-2Y(St)Y	25x2x0.52 Cat.5e	15.5	2390	0.664	190	120	500
CS27...	S-2Y(St)Y	50x2x0.52 Cat.5e	27.5	4802	1.056	380	240	1000
CS27...	S-2Y(St)Y	100x2x0.52 Cat.5e	32.5	9640	2.677	770	485	2000
1003316 CS7684500	S-2Y(St)H	25x2x0.52 Cat.5e FRNC	15.5	2250	0.664	190	120	500
CS76...	S-2Y(St)H	50x2x0.52 Cat.5e FRNC	27.5	4502	1.250	380	240	1000
1003317 CS7684600	S-2Y(St)H	100x2x0.52 Cat.5e FRNC	32.5	9520	2.644	770	485	2000