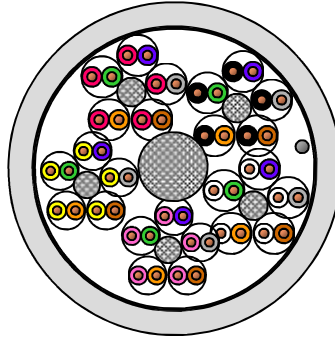


S-2YY/H 25/50/100x2x0.52 (AWG 24)

U/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, 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; b-Core bl, or, gn, br, gr Pair 6 – 10: a-Core rd; b-Core bl, or, gn, br, gr Pair 11 – 15: a-Core bk; b-Core bl, or, gn, br, gr Pair 16 – 20: a-Core ye; b-Core bl, or, gn, br, gr Pair 21 – 25: a-Core vi; b-Core bl, or, gn, br, gr Binding tapes of main units: bl, or, gn, br
Sheath	PVC or FRNC, 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

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

Electrical properties (nominal)

at 20°C

Loop resistance		≤ 190 Ω/km
Resistance unbalance		≤ 2%
Test voltage	core/core	1000 V _{DC} 1 min
Mutual capacitance	800 Hz	Nom. 48 nF/km
Capacitance unbalance	pair/ground	≤ 1500 pF/km
Mean characteristic impedance	100 MHz	100 Ω ± 5 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

Product order data

Product code	Designation	Type	Outer diameter mm	Fire load		Weight kg/km	Copper content	Tensile force N
				MJ/km	KWh/m			
1003301	S-2YY	25x2x0.52 Cat.5e	15.5	2390	0.664	190	120	500
1005651	S-2YY	50x2x0.52 Cat.5e	27.5	4802	1.056	380	240	1000
	S-2YY	100x2x0.52 Cat.5e	32.5	9640	2.677	770	485	2000
1003318	S-2YH	25x2x0.52 Cat.5e FRNC	15.5	2250	0.664	190	120	500
1003319	S-2YH	50x2x0.52 Cat.5e FRNC	27.5	4502	1.250	380	240	1000
1003320	S-2YH	100x2x0.52 Cat.5e FRNC	32.5	9520	2.644	770	485	2000

[PRODUCT CODE TABLE]

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