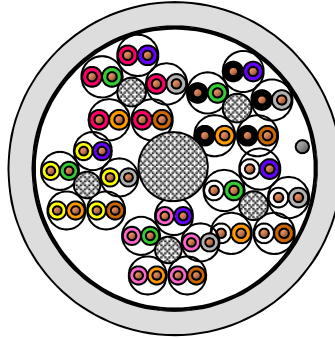


S-2YY/H 25/50/100x2x0.52 (AWG 24) Eca

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

EN50575: Eca
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

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Electrical properties (nominal)

at 20°C

Loop resistance		≤ 190 Ω/km
Resistance unbalance		≤ 2%
Test voltage	core/core	1000 V _{bc} 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			
60014340 (1003301)	S-2YY	25x2x0.52 Cat.5e	15.5	2390	0.664	217	120	500
tbd (1005651)	S-2YY	50x2x0.52 Cat.5e	22 x 28	4802	1.056	457	240	1000
tbd	S-2YY	100x2x0.52 Cat.5e	35.8	9640	2.677	920	485	2000
60011227 (1003318)	S-2YH	25x2x0.52 Cat.5e FRNC	15.5	2250	0.664	207	120	500
60014786 (1003319)	S-2YH	50x2x0.52 Cat.5e FRNC	22 x 28	4502	1.250	446	240	1000
60025118 (1003320)	S-2YH	100x2x0.52 Cat.5e FRNC	35.8	9520	2.644	906	485	2000

Product Code Table

Product Description	Product Code	PG Reference Code	PG Part Number
DR S-2YH 25x2x0.52 (AWG24) C5e		60011227	60011227
DR S-2YY 25x2x0.52 (AWG24) C5e		60014340	60014340
DR S-2YH 50x2x0.52 (AWG24) C5e		60014786	60014786
S-2YH 100x2x0.52 (AWG24)Cat.5e		--	60025118

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

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