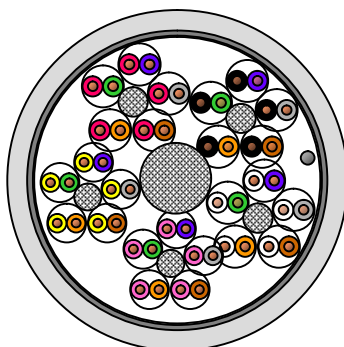




S-2Y(St)Y/H 25/50/100x2x0.52 (AWG 24)

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



Application

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

Standards

IEC 61156-4

Flame resistance

PVC IEC 60332-1
LSZH; LSHF 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 th 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 HFFR, diameter 15.5 mm grey, RAL 7035	
Printing	DRAKA S-2Y(St)Y 25x2xAWG24 CAT5 + 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	≥ 5000 MΩ*km

Electrical data (nominal)

at 20°C

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)	ACR (dB/100m)	Return loss (dB)
1	1.9	71	69.1	20
4	3.7	62	58.3	23
10	6.0	56	50.0	25
16	7.6	53	45.4	25
20	8.5	51	42.5	25
31.2	10.7	49	38.3	24
62.5	15.7	44	28.3	22
100	19.8	41	21.2	20

Technical data

Product code	Designation	Type	Outer diameter mm	Fire load		Weight kg/km	Copper content	Tensile force N
				MJ/km	kWh/m			
1003300	S-2Y(St)Y	25x2x0.52 Cat.5	15.5	2390	0.664	190	120	500
	S-2Y(St)Y	50x2x0.52 Cat.5	27.5	4802	1.056	380	240	1000
	S-2Y(St)Y	100x2x0.52 Cat.5	32.5	9640	2.677	770	485	2000
1003316	S-2Y(St)H	25x2x0.52 Cat.5 FRNC	15.5	2250	0.664	190	120	500
1014265	S-2Y(St)H	50x2x0.52 Cat.5 FRNC	27.5	4502	1.250	380	240	1000
1003317	S-2Y(St)H	100x2x0.52 Cat.5 FRNC	32.5	9520	2.644	770	485	2000