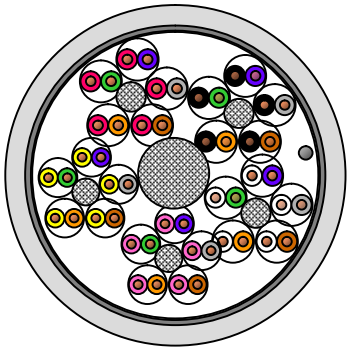
S-2Y(St)Y/H 25/50/100x2x0.52 (AWG 24)

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

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; 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
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 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	≥ 2000 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
	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