

Speedflex® 400

Halogen-Free Coaxial Cable

Engineering Data

Cable Design

	Ø (mm)
Centre cond	silver-plated copper, stranded (19/32)
Dielectric	0.98
Outer conductor.....a)	low-foamed polyethylene
.....b)	silver-plated copper wire braid
Jacket.....	coverage min 90%
Marking	coverage min 90%
.....	Low-smoke, zero-halogen, black
.....	Habia Cable Speedflex 400,
.....	and date of manufacture
.....	(plus optional blue longitudinal stripe)

Electrical Data

Impedance.....	$50 \pm 2 \Omega$
Capacitance	95 pF/m
Velocity of signal propagation	70 %
Signal delay.....	4.7 ns/m
Working voltage, maximum	1500V
Shielding effectiveness	>90 dB
Attenuation, typical values.....	see table
Power, typical values.....	see table
DC resistance, inner conductor	30 Ω/km
DC resistance, outer conductor.....	8 Ω/km

Environmental & Mechanical

Minimum bend radius, single bend	25 mm
Minimum bend radius, multiple bends	50 mm
Weight.....	55 kg/km
Operating temperature	-40 to +80 °C
Flame resistance, passes	IEC 60332-1, UL1581 VW-1
Smoke, passes	IEC 61034-2
Halogens, passes	IEC 60754-2
Radiation resistance	10 ⁵ Gy

Connectors

Compatible with all standard connector types
M17/28-RG400 (RG 400 /U) and M17/175-00001.

Cable Attenuation

Nominal values @ +25°C ambient temperature

Frequency MHz	Attenuation dB/100m
150	20
220	25
450	36
900	53
1500	71
1800	79
2000	84
2500	96

Average Power

Ambient temperature 40°C at sea level & VSWR1.0

Frequency MHz	Power W
150	200
220	165
450	115
900	80
1500	60
1800	55
2000	50
2500	45

Additional Information

Speedflex 400 UL 1375

UL version in accordance with AWM style 1375.	
Working voltage	30 V
Operating temperature.....	-40 to +60°C
Flame rating	UL 1581 VW-1
Our file no	E75929

Speedflex 400 XL

Cross-linked version	
Operating temperature.....	-40 to +100°C

Dimensional Equivalents:

M17/28-RG400 (RG 400/U)
M17/175-00001
low-smoke, flame-retardant, non-magnetic

The data provided in this publication indicates nominal values unless stated otherwise and is only valid for reference purposes at the time of publication and all information is subject to change without prior notice.

Internet <http://www.habia.com>
Email info@habia.se
International Telephone +46 (0) 293 22000