

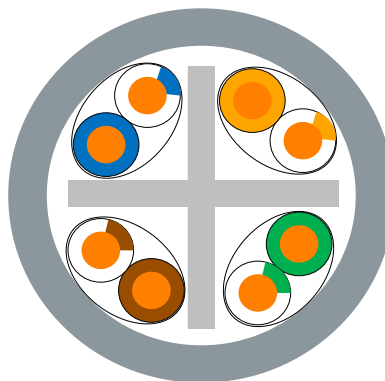
Data Transmission Cables

Application

These cables are used for connections in data communications. Designed for digital and analog signal carriers these cables support 250 mbit/s systems. This type of cables is halogen-free, has flame-retarder and low smoke density.

Cable Design

Conductor	Electrolytic Stranded Annealed Copper Wire 24/7 AWG
Insulation	EN 50290-2-23 PE Compound
Insulation Colour	1.Pair : Blue / Blue - White 2.Pair : Orange / Orange - White 3.Pair : Green / Green - White 4.Pair : Brown / Brown - White
Stranding	4-Pair Common Twist With Central Element
Sheath	EN 50290-2-27 HFFR Compound
Sheath Colour	RAL 7001 Grey
Operating Voltage [V]	250 V
Test Voltage [V]	1500 V
Bending Radius [mm]	8XD
Temperature Range	-20°C~+60°C



Tests

Flame Retardant	IEC 60332-1-2; VDE 0482-332-1-2; EN 60332-1-2
Smoke Density	IEC 61034-2; VDE 0482-1034-2; EN 61034-2
Corrosive Gas Test	IEC 60754-2 VDE 0482-267-2-3; EN 50267-2-3
Halogen free Test	IEC 60754-1 VDE 0482-267-2-1; EN 50267-2-1

Technical Characteristics

Products Code	Characteristics Impedance	Conductor Resistance	Insulation Resistance	Capacity	Velocity Of Propagation	Overall Diameter	Approx. Cable Weight
		Ω/km	MΩxkm	nF/km	%	mm	kg/km
3501220301	100±5	82	5000	52	67	6,40	40

Attenuation

Frequency	Attenuation	Near-End Crosstalk (Next)	Return Loss
MHz	dB/100m	dB min.	dB max.
1	2,1	74,3	20
4	4,3	65,3	23
10	6,6	59,3	25
16	8,2	56,3	25
20	9,2	54,8	25
31	11,8	51,9	23,6
62	17,1	47,4	21,5
100	22	44,3	20,1
250	36	38,3	17,3

Attenuation

