

Commercial information		Properties	Unit
Product group		Signal-/telecommunications cable	
Series		Signal-/telecommunications cable	
Type		Cat.6 UTP	
Description		4x2x23AWG PVC grijs (cross-member)	
Net weight		45	kg/km

Article number / standard length	EAN number	Properties	Unit
13969		Drum à 1	m
13969R X 1525		Ring à 1525	m
13969R X 305	8713182033828	Ring à 305	m
13969R X 500		Ring à 500	m

Construction		Properties	Unit
Standardization		ISO/IEC 11801, TIA/EIA 568 A/B	
Stranding element		Pair	
Core identification		Colour	
Colour insulated wires		Wht-BI/Blue, Wht-Or/Orange, Wht-Gr/Green, Wht-Br/Brown	
Number of cores		8	
Number of stranding elements		4	
Number of conductors per group		2	
Nominal cross section conductor		0.25	mm ²
Conductor material		Copper	
Conductor category		Class 1 = Solid	
Core insulation		PE	
Material outer sheath		PVC	
Colour outer sheath		Grey	

Characteristics for use		Properties	Unit
Diameter conductor		0.57	mm
Insulation thickness		0.21	mm
Outer sheath thickness		0.5	mm
Outer diameter approx.		6.2	mm
Bending radius after installation		55	mm
Transportation and storage temperature		-30 / 70	°C
Installation temperature		5 / 40	°C
Operating temperature		-15 / 70	°C
Tensile load		80	N

Technical characteristics	Properties	Unit
Velocity factor	65	%
Heat content	0.47	MJ/m
Characteristic impedance	100	Ohm
Structural return loss @ 1-20 MHz	23	dB/100mtr
Return loss @ 1 MHz	20	dB/100mtr
Return loss @ 4 MHz	23	dB/100mtr
Return loss @ 10 MHz	25	dB/100mtr
Return loss @ 16 MHz	25	dB/100mtr
Return loss @ 20 MHz	25	dB/100mtr
Return loss @ 31.2 MHz	23.6	dB/100mtr
Return loss @ 62.5 MHz	21.5	dB/100mtr
Return loss @ 100 MHz	20.1	dB/100mtr
Attenuation @ 1 MHz	20	dB/km
Attenuation @ 4 kHz	38	dB/km
Attenuation @ 10 MHz	60	dB/km
Attenuation @ 16 MHz	76	dB/km
Attenuation @ 20 MHz	85	dB/km
Attenuation @ 31.2 MHz	107	dB/km
Attenuation @ 62.5 MHz	154	dB/km
Attenuation @ 100 MHz	198	dB/km
NEXT @ 1 MHz	74.3	dB
NEXT @ 4 MHz	65.3	dB
NEXT @ 10 MHz	59.3	dB
NEXT @ 16 MHz	56.2	dB
NEXT @ 20 MHz	54.8	dB
NEXT @ 31.2 MHz	51.9	dB
NEXT @ 62.5 MHz	47.4	dB
NEXT @ 100 MHz	44.3	dB
PS NEXT @ 1 MHz	72.3	dB
PS NEXT @ 4 MHz	63.3	dB
PS NEXT @ 10 MHz	57.3	dB
PS NEXT @ 16 MHz	54.2	dB
PS NEXT @ 20 MHz	52.8	dB
PS NEXT @ 31.2 MHz	49.9	dB
PS NEXT @ 62.5 MHz	45.4	dB
PS NEXT @ 100 MHz	42.3	dB
EL FEXT @ 1 MHz	67.8	dB/100mtr
EL FEXT @ 4 MHz	55.8	dB/100mtr
EL FEXT @ 10 MHz	47.8	dB/100mtr
EL FEXT @ 16 MHz	43.7	dB/100mtr
EL FEXT @ 20 MHz	41.8	dB/100mtr
EL FEXT @ 31.2 MHz	37.9	dB/100mtr
EL FEXT @ 62.5 MHz	31.9	dB/100mtr
EL FEXT @ 100 MHz	27.8	dB/100mtr
PS EL FEXT @ 1 MHz	64.8	dB/100mtr
PS EL FEXT @ 4 MHz	52.8	dB/100mtr
PS EL FEXT @ 10 MHz	44.8	dB/100mtr
PS EL FEXT @ 16 MHz	40.7	dB/100mtr
PS EL FEXT @ 20 MHz	38.8	dB/100mtr
PS EL FEXT @ 31.2 MHz	34.9	dB/100mtr
PS EL FEXT @ 62.5 MHz	28.9	dB/100mtr
PS EL FEXT @ 100 MHz	24.8	dB/100mtr