

Design

Inner conductor: Stranded bare copper wire (6 AWG) ø 4.5 mm (0.177 in dia)
 Insulation of foamed Polyethylene (PE) with skin ø 11.3 mm (0.445 in dia)
 Alulaminat foil overlapped, applied longitudinally
 Shield braiding of tinned copper wires ø 12.1 mm (0.476 in dia)
 Coverage about 70%

Jacket:

Thermoplastic copolymer (FRNC) BK ø (14.6 ±0.3) mm (0.575 ±0.012 in dia)

Printing: FTS-H 500 FRNC * "internal lot number"

Electrical data at 20°C

Conductor resistance	≤	1.5	Ohm/km
Insulation resistance	≥	10	GOhm*km
Characteristic impedance		(50 ±2)	Ohm
Capacitance (1 kHz)		78	nF/km
Screening attenuation 1 GHz (DIN EN 50289-1-6 / triaxial method)	≥	90	dB
Relative velocity of propagation		85	%
Test voltage (wire/screen rms 50Hz 1min)		1000	V

Frequency (MHz)	10	100	500	1000	2000	2400	3000	4000	5000	6000
Attenuation typ. (dB/100m) (dB/100ft)	0,86 (0,26)	2,81 (0,86)	6,7 (2,04)	9,8 (2,99)	14,6 (4,45)	16,2 (4,94)	18,3 (5,58)	21,6 (6,58)	24,6 (7,50)	27,5 (8,38)
Mean. Power (W) at 40°C	6327	1928	810	547	364	326	284	237	206	183

Mechanical and thermal characteristics

Jacket material acc. to DIN EN 50290-2-27 (HD 624.7)
 Flame retardant acc. to IEC 60332-1-2

Other characteristics:

RoHS compliant (Directive 2011/65/EC), Low Smoke, Fire retardant, Zero Halogen
 Corrosivity of fumes acc. to IEC 60754-2, Smoke-density acc. to IEC 61034, UV-resistant

Permissible temperature range

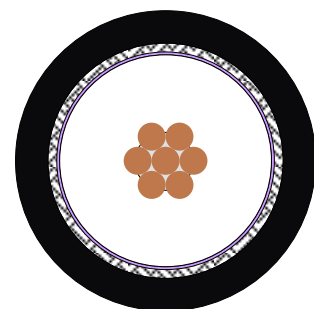
Transport and fixed installation : -55°C (-67°F) up to 85°C (185°F)
 Installation and flexible use : -40°C (-40°F) up to 85°C (185°F)

Min. bending radius allowed : repeated 8X ø, single 4X ø
 Weight about : 256 kg/km (172 lb/1000ft)

Designation of order:

L45466-B21-C516

02YS(ST)CH 4.5/11.3-50 LI SW
 500 m (1640 ft) on non-returnable reel



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