

Quick Selection Guide

P/N	Outer Ømm	Operating frequency (GHz)
SWFCF ₄₆ -50-2.5-51	3.7	DC-40
SWFCF ₄₆ -50-4-51	5.3	DC-26.5
SWFCF ₄₆ -50-6-51	7.3	DC-18
SWFCF ₄₆ -50-4-52	5.0	DC-30
SWFCF ₄₆ -50-6-52	7.10	DC-18

Attenuation Table

P/N	1.6GHz Attenuation (≤dB/m)	2GHz Attenuation (≤dB/m)	6GHz Attenuation (≤dB/m)	18GHz Attenuation (≤dB/m)	26.5GHz Attenuation (≤dB/m)	40GHz Attenuation (≤dB/m)
SWFCF ₄₆ -50-2.5-51	0.47	0.53	0.96	1.74	2.16	2.74
SWFCF ₄₆ -50-4-51	0.30	0.34	0.62	1.16	1.54	-
SWFCF ₄₆ -50-6-51	0.21	0.23	0.43	0.83	-	-
SWFCF ₄₆ -50-4-52	0.40	0.45	0.80	1.50	1.85	-
SWFCF ₄₆ -50-6-52	0.25	0.27	0.58	1.10	-	-



P/N

SWFCF₄₆-50-2.5-51

Construction Specification

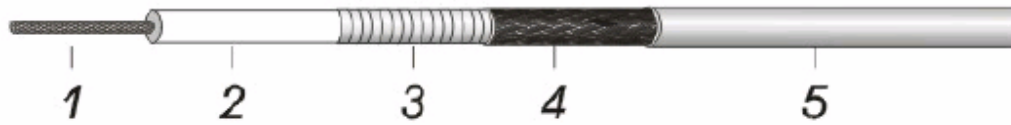
1	Inner conductor	Silverplated copper
2	Insulation	Polytetrafluoroethylene
3	Outer conductor Tape	Spiral wrapped silver plated copper tape
4	Outer conductor Braid	Silverplated copper
5	Jacket	Extruded Fluorinated Ethylene Propylene

Electrical & Mechanical Characteristics

Impedance (Ω)	50 \pm 2.5
Velocity of Propagation (%)	85
Operating frequency(GHz)	DC-40
Capacitance (pF/m)	78
Continuous working voltage (kv)	1.0
Screening effectiveness (dB)	\geq -100
Rated power at 5GHz (W)	150
Stability of Temperature – Phase (-55°C~+75°C)	$\Delta \eta$ max \leq 500PPM
Outer \varnothing (mm)	3.7
Min. bending radius (mm)	10
Weight, max (g/m)	35
Operating temperature (°C)	-55~165°C
Standing wave (2.5m subassembly)	0~2 GHz, S \leq 1.10; 2~6 GHz,S \leq 1.25;6~26GHz,S \leq 1.35

Attenuation at (20°C) (dB/m)

Frequency	
1.6 GHz	0.47
2 GHz	0.53
6 GHz	0.96
18 GHz	1.74
26.5 GHz	2.16
40 GHz	2.74



P/N

SWFCF₄₆-50-4-51

Construction Specification

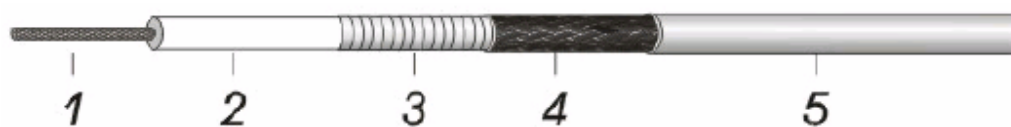
1	Inner conductor	Silverplated copper
2	Insulation	Polytetrafluoroethylene
3	Outer conductor	Tape Spiral wrapped silver plated copper tape
4		Braid Silverplated copper
5	Jacket	Extruded Fluorinated Ethylene Propylene

Electrical & Mechanical Characteristics

Impedance (Ω)	50 \pm 2.5
Velocity of Propagation (%)	85
Operating frequency(GHz)	DC-26.5
Capacitance (pF/m)	78
Continuous working voltage (kv)	2.5
Screening effectiveness (dB)	\geq -100
Rated power at 5GHz (W)	280
Stability of Temperature – Phase (-55°C~+75°C)	$ \Delta\eta \text{ max } \leq 500\text{PPM}$
Outer \emptyset (mm)	5.3
Min. bending radius (mm)	15
Weight, max (g/m)	75
Operating temperature (°C)	-55~165°C
Standing wave (2.5m subassembly)	0~2 GHz,S \leq 1.10; 2~6 GHz,S \leq 1.25; 6~26GHz,S \leq 1.35

Attenuation at (20°C) (dB/m)

Frequency	
1.6 GHz	0.30
2 GHz	0.34
6 GHz	0.62
18 GHz	1.16
26.5 GHz	1.54
40 GHz	/



P/N

SWFCF₄₆-50-6-51

Construction Specification

1	Inner conductor	Silverplated copper
2	Insulation	Polytetrafluoroethylene
3	Outer conductor	Spiral wrapped silver plated copper tape
4	Braid	Silverplated copper
5	Jacket	Extruded Fluorinated Ethylene Propylene

Electrical & Mechanical Characteristics

Impedance (Ω)	50 \pm 2.5
Velocity of Propagation (%)	80
Operating frequency(GHz)	DC-18
Capacitance (pF/m)	78
Continuous working voltage (kv)	3.7
Screening effectiveness (dB)	\geq -100
Rated power at 5GHz (W)	490
Stability of Temperature – Phase (-55°C~+75°C)	$\Delta \eta$ max \leq 500PPM
Outer \emptyset (mm)	7.3
Min. bending radius (mm)	35
Weight, max (g/m)	140
Operating temperature (°C)	-55~165°C
Standing wave (2.5m subassembly)	0~2 GHz,S \leq 1.10; 2~6 GHz,S \leq 1.25; 6~18GHz,S \leq 1.35

Attenuation at (20°C) (dB/m)

Frequency	
1.6 GHz	0.21
2 GHz	0.23
6 GHz	0.43
18 GHz	0.83
26.5 GHz	/
40 GHz	/



P/N

SWFCF₄₆-50-4-52

Construction Specification

1	Inner conductor	Silverplated copper
2	Insulation	Polytetrafluoroethylene
3	Tape	Spiral wrapped silver plated copper tape
4	Outer conductor Braid	Silverplated copper
5	Jacket	Extruded Fluorinated Ethylene Propylene

Electrical & Mechanical Characteristics

Impedance (Ω)	50 \pm 2.5
Velocity of Propagation (%)	85
Operating frequency(GHz)	DC-30
Capacitance (pF/m)	78
Continuous working voltage (kv)	2.0
Screening effectiveness (dB)	\geq -100
Rated power at 5GHz (W)	200
Stability of Temperature - Phase (-55 $^{\circ}$ C~+75 $^{\circ}$ C)	$\Delta \eta$ max \leq 500PPM
Outer \emptyset (mm)	5.0
Min. bending radius (mm)	10
Weight, max (g/m)	60
Operating temperature ($^{\circ}$ C)	-55~165 $^{\circ}$ C
Standing wave (2.5m subassembly)	0~2 GHz, S \leq 1.10; 2~6 GHz, S \leq 1.25; 6~26GHz, S \leq 1.35

Attenuation at 20($^{\circ}$ C) (dB/m)

Frequency	
1.6 GHz	0.40
2 GHz	0.45
6 GHz	0.80
18 GHz	1.50
26.5GHz	1.85



P/N

SWFCF₄₆-50-6-52

Construction Specification

1	Inner conductor	Silverplated copper
2	Insulation	Polytetrafluoroethylene
3	Outer conductor	Tape Spiral wrapped silver plated copper tape
4		Braid Silverplated copper
5	Jacket	Extruded Fluorinated Ethylene Propylene

Electrical & Mechanical Characteristics

Impedance (Ω)	50 \pm 2.5
Velocity of Propagation (%)	85
Operating frequency(GHz)	DC-18
Capacitance (pF/m)	78
Continuous working voltage (kv)	3.0
Screening effectiveness (dB)	\geq -100
Rated power at 5GHz (W)	380
Stability of Temperature - Phase (-55°C~+75°C)	$\Delta \eta$ max \leq 500PPM
Outer \varnothing (mm)	7.10
Min. bending radius (mm)	21.0
Weight, max (g/m)	125
Operating temperature (°C)	-55~165°C
Standing wave (2.5m subassembly)	0~2 GHz, S \leq 1.10; 2~6 GHz, S \leq 1.25; 6~18GHz, S \leq 1.35

Attenuation at 20(°C) (dB/m)

Frequency	
1.6 GHz	0.25
2 GHz	0.27
6 GHz	0.58
18 GHz	1.10
26.5GHz	/