

Semi-Rigid Cable



General Description

Semi-Rigid Cable consists of a center conductor, an insulation and an outer conductor.

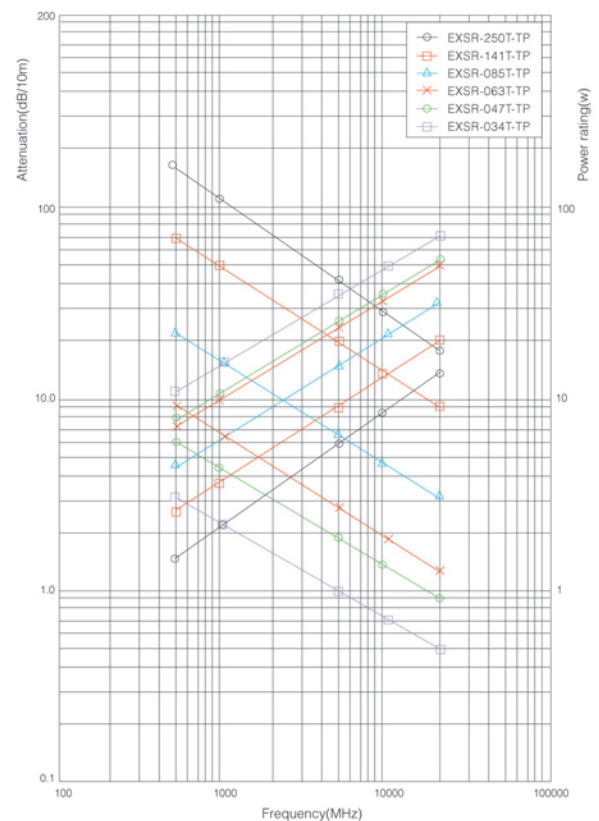
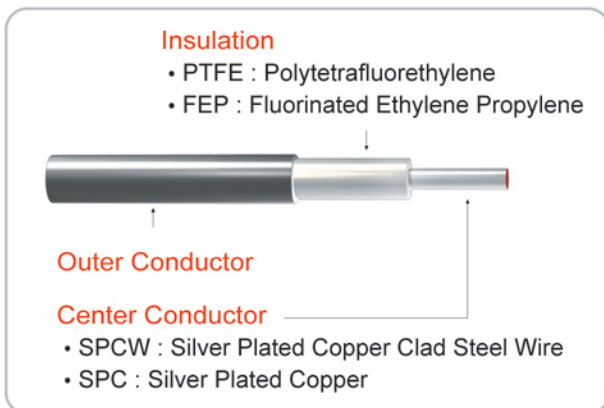
TEFLON as an insulation is extruded on the center conductor and outer conductor, copper, covers the Teflon. These products provide 100% of shielding coverage up to very high frequency and flexibility.

Semi-Rigid Cable은 내부도체 위에 TEFLON계열의 수지를 균일하게 압출하여 절연체를 구성시키고, 그 위에 외부도체(동, AL Pipe)를 이용하여 피복을 형성하므로 100% 차폐를 유지하며, 유연성 있게 설계 및 제조되어 있고, 정확한 품질 및 공정관리에 의하여 양질의 품질을 보장하고 있습니다.

Characteristics

- Excellent shielding effect
- Excellent VSWR(Voltage Standing Wave Ratio)
- Low signal attenuation
- Prominent temperature retention and rapid data processing
- Convenient assembly

Structure



Application

- Transmission line for PCS, CDMA station.
- Transmission line inside the telecommunication apparatus.
- Satellite equipment.
- Transmission line inside the broad casting equipment.
- Signal transmission line for ultra-speed computer.
- Telecommunication equipment demanding less loss and high reliability.
- Transmission of high frequency signal for other communication and test equipment.

How to order(주문방법)

EXPAN P/N : EXSR - 141 - T - 50 - TP - CW
 ① ② ③ ④ ⑤ ⑥

- ① Serial Number
- ② Outer conductor diameter(inch $\times 10^{-3}$)
- ③ Insulation material - F : FEP
T : PTFE
- ④ Impedance 50 : 50 Ω
75 : 75 Ω
B-XX Ω : Special Impedance
- ⑤ surface treatment for outer conductor
CU : Cu(original copper)
TP : Tin-Plating
- ⑥ Center conduct material
CW : SPCW
C : SPC



■ Technical information

ITEM	ARTICLE PART NUMBER	CENTER CONDUCTOR		INSULATION		OUTER CONDUCTOR		BENDING
		MATERIALS	DIA(mm)	MATERIALS	DIA(mm)	MATERIALS	DIA(mm)	RADIUS(mm)
50Ω	EXSR-250T-50-CU-C	SPC	1,630	PTFE	5,31	CU	6,35	10.0
	EXSR-141T-50-CU-CW	SPCW	0.910	PTFE	2,98	CU	3.58	6.4
	EXSR-085T-50-CU-CW	SPCW	0.515	PTFE	1,67	CU	2.19	3.2
	EXSR-047T-50-CU-CW	SPCW	0.290	PTFE	0.94	CU	1.19	3.0
	EXSR-034T-50-CU-CW	SPCW	0.203	PTFE	0.66	CU	0.89	3.0
	EXSR-250T-50-TP-C	SPC	1,630	PTFE	5,31	CU	6,35	10.0
	EXSR-141T-50-TP-CW	SPCW	0.910	PTFE	2,98	CU	3.58	6.4
	EXSR-085T-50-TP-CW	SPCW	0.515	PTFE	1,67	CU	2.19	3.2
	EXSR-047T-50-TP-CW	SPCW	0.290	PTFE	0.94	CU	1.19	3.0
	EXSR-034T-50-TP-CW	SPCW	0.203	PTFE	0.66	CU	0.89	3.0

■ Electric properties

ITEM	ARTICLE PART NUMBER	CHARACTERISTIC IMPEDANCE (Ω)	CAPACITANCE (pF/M)	VOLTAGE WITHSTANDING (V/MIN)	TYPICAL ATTENUATION(dB/10M)					WATTS(W)					MAX OPERATING TEMP
					1 GHz	5 GHz	10 GHz	15 GHz	20 GHz	1 GHz	5 GHz	10 GHz	15 GHz	20 GHz	
50 Ω	EXSR-250T-50-CU-C	50 $\pm$ 2	94	7500	2.1	5.4	8.5	11.1	—	347	138	89.9	69.4	—	90
	EXSR-141T-50-CU-CW	50 $\pm$ 2	94	5000	3.5	8.6	13	16.6	19.9	218	90.8	61.1	48.1	40.5	125
	EXSR-085T-50-CU-CW	50 $\pm$ 2	94	5000	6.1	14.4	21.1	26.6	31.5	84.7	36.3	24.9	19.9	16.9	125
	EXSR-047T-50-CU-CW	50 $\pm$ 2.5	94	2000	10.6	24.5	35.5	44.2	51.7	20.9	9.1	6.3	5.1	4.4	100
	EXSR-034T-50-CU-CW	50 $\pm$ 3.0	94	2000	15	34.3	49.3	61.1	71.3	11.0	4.8	3.4	2.7	2.3	100
	EXSR-250T-50-TP-C	50 $\pm$ 2	94	7500	2.1	5.4	8.5	11.1	—	347	138	89.9	69.4	—	90
	EXSR-141T-50-TP-CW	50 $\pm$ 2	94	5000	3.5	8.6	13	16.6	19.9	218	90.8	61.1	48.1	40.5	125
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