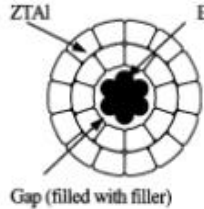
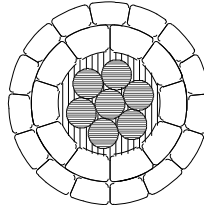
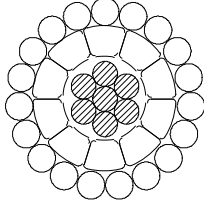
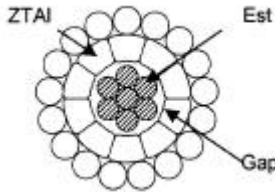
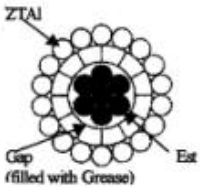
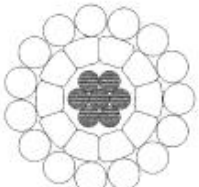
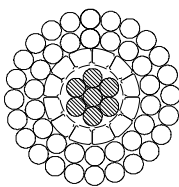


<Design example >

GAP type name		Unit	GZTACSR 190 mm²	GZTACSR 240 mm²	GZTACSR 265 mm²	GZTACSR 290 mm²
Construction	Nos./mm		ZTAL - 14/TW* (3.24)	ZTAL - 15/TW*	ZTAL - 19/3.1	ZTAL - 17/3.55
			ZTAL - 10/TW* (2.99)	ZTAL - 10/TW*	ZTAL - 10/TW* (3.94)	ZTAL - 10/TW*
			EST* - 7/2.0	EST* - 7/2.4	EST* - 7/2.8	EST* - 7/2.8
Cross sectional view						
Min. breaking strength	Conductor	kN	62.6	86.1	107.5	110.5
	Steel core		38.93	50.3	68.7	68.7
Diameter	Conductor	mm	17.8	20.6	22.6	23.5
	Steel core		6.0	7.2	8.4	8.4
gap between steel core and AL layer		mm	1.2	1.2	1.2	1.2
Cross Sectional Area	AL(ZT,ZTA)	mm ²	185.6	247.9	265.3	290.2
	Steel		22.0	31.7	43.1	43.1
	Total		207.6	279.6	308.4	333.3
Weight	AL	kg/km	515.4	684.8	736.5	805.4
	Steel		172.0	248	337	337
	Filler		13.0	18.4	20.3	20.3
	Total		700.4	951	1094	1163
D.C. resistance at 20? (Max.)		Ω /km	0.1591	0.120	0.1129	0.1034
Modulus of elasticity	Conductor	GPa	77.1	78.2	81.9	80.4
	Steel core		205.9	205.9	205.9	206
Coefficient of Linear Expansion	Conductor	× 10 ⁻⁶ /?	19.7	19.6	19.0	19.2
	Steel core		11.5	11.5	11.5	11.5

* TW : Trapezoid wire
EST : Extra high strength Zn galvanized steel

<Design example >

GAP type name		Unit	GZTACSR 340 mm²	GZTACSR 440 mm²	GZTACSR 520 mm²	TACSR 610 mm²
Construction	Nos./mm		ZTAL - 18/3.8	ZTAL - 15/4.8	ZTAL - 42/3.5	-
			ZTAL - 12/TW*	ZTAL - 10/TW*	ZTAL - 12/TW*	TAL - 54/3.8
			EST* - 7/3.8	EST* - 7/3.1	EST* - 7/3.4	ST - 7/3.8
Cross sectional view						as same as standard ACSR 610mm ²
Min. breaking strength	Conductor	kN	172.4	147	178.4	180
	Steel core		122.9	84.2	101.2	
Diameter	Conductor	mm	26.6	28.5	31.4	34.2
	Steel core		11.4		10.2	
gap between steel core and AL layer		mm	1.2	1.2	1.2	-
Cross Sectional Area	AL(ZT,ZTA)	mm ²	342.3	439.1	523.6	612.4
	Steel		79.4	52.8	63.6	79.4
	Total		421.7	491.9	587.2	691.78
Weight	AL	kg/km	945.5		1453.5	2320
	Steel		622.2		497	
	Filler		31.4		26.7	
	Total		1599.0	1658	1977	
D.C. resistance at 20? (Max.)		Ω /km	0.0859	0.0686	0.0576	0.0481
Modulus of elasticity	Conductor	GPa	88.9	79	77.4	78.3
	Steel core		205.9	206	205.9	
Coefficient of Linear Expansion	Conductor	× 10 ⁻⁶ /?	18.0	19.8	19.7	19.5
	Steel core		11.5	11.5	11.5	

* TW : Trapezoid wire
 EST : Extra high strength Zn galvanized steel
 ST : standard Zn galvanized steel