



IRON AND STEEL
PRODUCTS

High Carbon Galvanized Steel Wire – ACSR

(Single wire and Standard)

- **Product description:**

Duo to high capacity and strength of high carbon galvanized steel wire used as steel core for conductor reinforcement in Aluminum Conductor Steel Reinforced (ACSR) They can be used in two different forms: Single wire and stranded wire.

Technical properties are varied in different kinds of application such as high —voltage transmission lines telecommunications cables as the agricultural industry.

- **Product Standard**

Single wire
ASTM B498
BS 4565.BS EN 50189
DIN EN 48200-3
IEC 60888
ISIRI 10428

- **Technical Specification (single standard wire)**

DIN 48200-3 (single wire)		
Wire Diameter (mm)	Tensile strength (MPa)	Coating weight (g/m ²)
1.35-1.75	1310-1520	200
1.76-2.74	1310-1520	210
2.75-3.49	1310-1520	250
3.50-4.95	1310-1520	275



- **Product standard (Woven wires)**

ASTM A475
BS 183

- **Technical Specification (woven wires)**

BS 183 & ASTM A475 (STANDARD Wire)						
Nominal diameter of Strand (mm)	Number of Wire strand	Nominal diameter of wire in strand (mm)	Min breaking load of stand (KN)			
			Grade			
			Min		max	
			BS	ASTM	BS	ASTM
4.71	7	1.57	4.9	5.11	16.2	17.77
5.79	7	1.93	6	6.85	20	24
8.04	7	2.68	13.5	14	44.4	49
9.03	7	3.01	17.3	19	57	68
9.84	7	3.28	20.8	-	66.8	-
1.56-1.98	7	3.52-3.66	25.6	25	84.2	92

High Carbon Galvanized Steel Wire — ACSR (single wire)			
Wire Diameter (mm)	Inner Diameter (mm)	Outer Diameter(mm)	Length (m)
1.44-4.80	500	850	4100-8200

High carbon Galvanized steel wire —ACSR (Stranded wire)				
Nominal diameter of strand (mm)	Number of wire strand	Spool Diameter (mm)	Spool Height (mm)	Length(m)
4.71-10.98	7	900-1100	800	4040-8200

• **Technical Specification:**

BS EN 50189 (single wire)						
Diameter (mm)	TERISILE strength (MPa)	Coating weight (g/m²)				
		Class A	Class B	Class C	Class D	Class E
1.24<c11.50	1400	185	370	150	365	185
1.50<c11.75	1400	200	400	160	460	200
1.75<c12.00	1400	215	430	175	550	215
2.00<c12.25	1400	215	430	175	550	250
2.25<c12.75	1350	230	460	190	640	250
2.75<c13.00	1350	230	460	190	640	250
3.00<c13.50	1300	245	490	205	730	250
3.50<c14.25	1300	260	520	260	730	260
4.25<c14.75	1300	275	550	275	775	275
4.75<c15.00	1300	290	580	290	825	290
5.00<c15.25	1300	290	580	290	825	290
5.25<c15.50	1300	290	580	290	825	290

ASTM B498 (single wire)		
Wire Diameter (mm)	Coating weight (g/m²)	Tensile strength (MPa)
1.27-1.52	183	1450
1.53-1.90	198	1450
1.90-2.28	241	1450
2.29-2.64	229	1410
2.65-3.04	244	1410
3.05-3.55	259	1410
3.56-4.57	274	1380
4.58-4.82	305	1380





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