

4. Performance of AS Wire

Standard	Abbreviation	Minimum tensile strength (kgf/mm ²)	Minimum conductivity at 20° C (%TACS)	Modulus of elasticity (kgf/mm ²)	Coefficient of linear expansion (x 10 ⁻⁶ /°C)	
IEC 1232: 1993	AS/IEC	1,070-1,340 MPa	20.3	162 GPa	13.0 x 10 ⁻⁶ K ⁻¹	
ASTM B415-92 B502-93	AS/ASTM	109-137	20.3	162 GPa	12.6	
DIN 48200-Teil 8-'77	AS/DIN	1,080-1,370 N/mm ²	ditto	ditto	ditto	
ÖNORM E4031-'77	AS/ÖNORM	ditto	ditto	ditto	ditto	
NORMA ESPAÑOLA UNE 21-059-75/21-060-75	AS/UNE	ditto	ditto	ditto	ditto	
Australian Standard 1220-part 3/1222 part 2	AS/AS	1.19-1.34 GPa	ditto	162 GPa	ditto	
Japan Federation of Electric Power Co. A241 • A220	AS/JFEPC	130-135	20.3-23.0	14,600-14,700	12.9	
JCS 389-1984	14% Conductivity	14 AS	160	14	17,300	12.0
	20% Cond.	20 AS	135	20.3	15,800	12.6
	23% Cond.	23AS/130	130	23	15,200	12.9
		23AS/125	125		15,200	12.9
	27% Cond.	27 AS	110	27	14,300	13.4
	30% Cond.	30 AS	90	30	13,500	13.8
	35% Cond.	35 AS	70	35	12,400	14.5
	40% Cond.	40 AS	70	40	11,100	15.5

JCS: Japanese Cable Makers Association Standard