

Cable design features












AS/NZS 1802



Feature	Function	Cable Type Catalogue page	AS/NZS 1802		
			209 5	210 6	240 7
Standard conductor construction	Mid-range flexible and 'robust' conductor with resistance to flattening and crushing.		●	●	●
Superflex	Definitely flexible and 'soft' with minimum resistance to bending, plus smaller bending radii. Conductor has many more wires each of smaller size.				
R-EP-90 Insulation	Standard Olex EPR tough but flexible insulation with resistance to damage and good electrical characteristics.		●	●	●
HV-EP-90 Insulation	High electrical grade EPR capable of higher electrical stresses.				
Semiconductive extruded screens	Low resistance Earth path around each core with proven electrical performance, but flexible and tolerates flexing and bending.				
Metal braided screens	High conductivity short circuit safety, the braids form an earth path with very low electrical resistance and high reliability.		●	●	●
Interstitial earths	Mechanically strong earths replace braided earth screens in cable that is reeled or frequently moved.				
Semiconductive covering on earths	Low resistance path from one earth core to the next so provides higher conductivity earth circuit.				
Interstitial pilots	Insulated pilots are used for control circuits. Replaces central pilot and allows the cable diameter to be smaller where the cradle is absent.				●
Cradle	Protects cores against crushing. Semiconductive to prevent phase-to-phase faults without earthing. Usually incorporates the central pilot.		●	●	●
Central pilot	Extensible pilot, used for monitoring circuit to trip breakers before cable is mechanically pulled apart. Type 245 cable has three central pilots.		●	●	
Low lay up lay ratio	Twist of cores allows cable bending and lower lay ratio (more twists) allows smaller bending radius.				
Semiconductive extrusion over assembly of cores	Provides semiconductive path to earth conductors at any cut of the sheath or split of insulation through to active conductors.				
Pliable armour	Impact tolerant and cut resistant armour provides mechanical strength to avoid damage from impact and cutting.				
Sheath reinforcement	High strength yarns or tapes provide radial mechanical strength to sheath and cable to prevent squashing or crushing of the cable.				



AS/NZS 2802

										
241 8	245 10	260 11	275 6	409 13	412.1 14	440 15	441.1 16	441 17	450 18	455 19
●		●	●	●	●	●	●	●	●	●
	●									
●	●	●	●	●	●	●	●			
				>11kV	>11kV			●	●	●
●	●						●	●	●	●
		●		●	●				●	
●	●		●		●		●	●	●	●
●	●		●				●	●	●	●
		●				●			● (x1)	● (x1)
●	●	●	●	●		●	●	●		
●	● (x3)		●	●			●	●		
	●									
●	●		●				●	●		
		●			●					
●	●		●				●	●	●	●