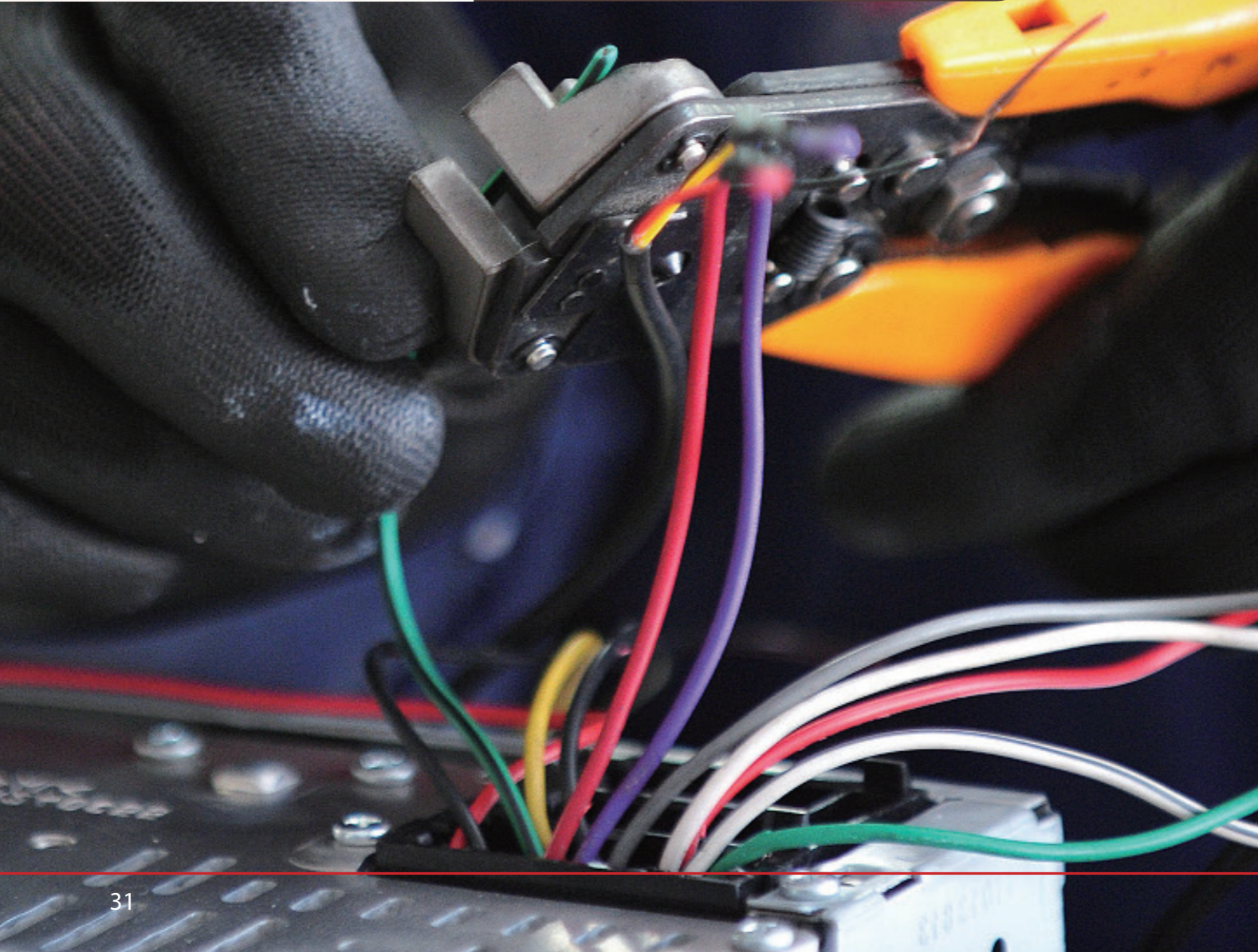


Primary wires

American Standard, German Standard, Japan Standard.



American Standard GPT Automotive Wire



Specification



Type	CONDUCTOR			INSULATION	
	AWG	No./mm	O.D. (mm)	Thickness (mm)	O.D. (mm)
GPT	20	7/0.31	0.93	0.59	2.10
	18	16/0.254	1.17	0.62	2.40
	16	26/0.254	1.49	0.61	2.70
	14	19/0.360	1.8	0.60	3.00
	12	19/0.45	2.25	0.68	3.60
	10	19/0.57	2.85	0.88	4.60
	8	19/0.71	3.55	1.08	5.70
80 C ; SAE J 1128/1995, RoHS					

American Automotive Wire



Specification



Type	CONDUCTOR				INSULATION	
	AWG	Cross Section (mm ²)	No./mm	O.D. (mm)	Thickness (mm)	O.D. (mm)
GXL	20	0.5	7/0.31	0.93	0.59	2.10
	8	8	19/0.71	3.55	1.08	5.70
100 C ; SAE J 1128/1995						
HDT	20	0.5	7/0.31	0.93	0.94	2.80
	8	8	19/0.71	3.55	1.53	6.60
100 C ; SAE J 1128/1995						
SXL	20	0.5	7/0.31	0.93	0.79	2.50
	8	8	19/0.71	3.55	1.23	6.00
100 C ; SAE J 1128/1995						
TWP	24	0.22	7/0.19	0.57	0.44	1.45
	8	8	19/0.71	3.55	0.63	4.80
100 C ; SAE J 1128/1995						
TXL	24	0.22	7/0.19	0.57	0.44	1.45
	8	8	19/0.71	3.55	0.63	4.80
100 C ; SAE J 1128/1995						

German Standard Automotive Wire



Specification



Type	CONDUCTOR			No. of CONDUCTOR	INSULATION		Jacket	
	Construction (No./mm)	No./mm	O.D. (mm)		Thickness (mm)	O.D. (mm)	Thickness (mm)	O.D. (mm)
FLRY11Y/ FLR4G11Y	0.35	12/0.20	0.80	2	0.25	1.30	0.50	3.60
				3	0.25	1.30	0.50	3.80
	6.00	84/0.30	3.17	2	0.52	4.20	0.80	10.00
				3	0.52	4.20	0.83	10.70
80 C ; DIN72551/1991								
FLRYY/ FLR4GY	0.35	12/0.20	0.80	2	0.25	1.30	0.50	3.60
				3	0.25	1.30	0.50	3.80
	6.00	84/0.30	3.17	2	0.52	4.20	0.80	10.00
				3	0.52	4.20	0.83	10.70
80 C ; DIN72551/1991								

German Standard Jacketed Automotive Wire



Specification



Type	CONDUCTOR			No. of CONDUCTOR	INSULATION		Jacket	
	Construction (No./mm)	No./mm	O.D. (mm)		Thickness (mm)	O.D. (mm)	Thickness (mm)	O.D. (mm)
FLRY11Y/ FLR4G11Y	0.35	12/0.20	0.80	2	0.25	1.30	0.50	3.60
				3	0.25	1.30	0.50	3.80
	6.00	84/0.30	3.17	2	0.52	4.20	0.80	10.00
				3	0.52	4.20	0.83	10.70
80 C ; DIN72551/1991								
FLRYY/ FLR4GY	0.35	12/0.20	0.80	2	0.25	1.30	0.50	3.60
				3	0.25	1.30	0.50	3.80
	6.00	84/0.30	3.17	2	0.52	4.20	0.80	10.00
				3	0.52	4.20	0.83	10.70
80 C ; DIN72551/1991								

Japan Standard Automotive Wire



Specification



Type	CONDUCTOR			INSULATION	
	Cross Section (mm ²)	No./mm	O.D. (mm)	Thickness (mm)	O.D. (mm)
AV	0.5f	20/0.18	0.93	0.64	2.20
	8.00	50/0.45	3.67	0.97	5.60
80 C ; JIS C 3406/1993					
AVS	0.3f	15/0.18	0.80	0.53	1.85
	5.00	65/0.32	2.98	0.76	4.50
80 C ; JASO D 611/1994					
AVSS	0.3f	19/0.16	0.80	0.33	1.45
	2.00	19/0.37	1.85	0.45	2.75
80 C ; JASO D 611/1994					
AVX	0.5f	20/0.18	0.93	0.59	2.10
	8.00	50/0.45	3.67	0.87	5.40
100 C ; JASO D 608/1994					
AEX	0.5f	20/0.18	0.93	0.59	2.10
	8.00	50/0.45	3.67	0.87	5.40
120 C ; JASO D 608/1994					
CAVS	0.3	7/0.26	0.70	0.38	1.45
	1.25	16/0.32	1.40	0.38	2.15
80 C ; JASO D 611/1994					



GENERAL WIRING COLOR CODE



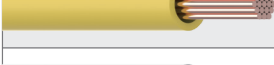
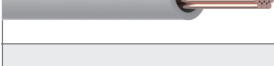

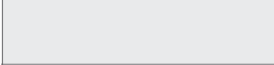




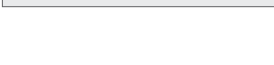




Picture	Color	Remarks
	Green or green w/yellow stripe(s)	DC Grounding Conductors
	Black or Yellow	DC Negative Conductors
	Red	DC Positive Conductors

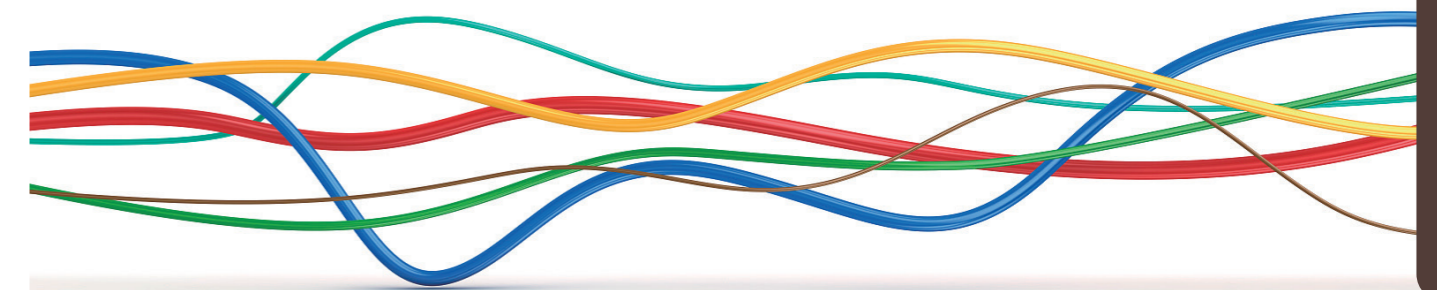
Picture	Color	Item Use
	Tan	Water temperature Water temperature sender to gauge
	Pink (Pk)	Fuel gauge Fuel gauge sender to gauge
	Green/stripe (G/x) Except G/Y	Tilt down and/or trim in Tilt and/or trim circuits
	Blue/stripe (Bl/x)	Tilt up and/or trim out Tilt and/or trim circuits

GENERAL WIRING COLOR CODE



Picture	Color	Item Use
	Yellow w/red strip (YR)	Starting circuit Starting switch to solenoid
	Brown/yellow stripe (BY) or Yellow(Y)	Bilge blowers Fuse or switch to blowers
	Dark Gray (Gy)	Navigation lights Fuse or switch to lights
	Brown (Br)	Tachometer Tachometer sender to gauge
	Brown (Br)	Generator armature Generator armature to regulator
	Brown (Br)	Alternator charge light Generator
	Brown (Br)	Terminal/alternator
	Brown (Br)	Auxiliary terminal to light to regulator
	Brown (Br)	Pumps Fuse or switch to pumps
	Orange (O)	Accessory feed Ammeter to alternator or generator output and accessory fuses or switches
	Orange (O)	Distribution panel to accessory switch
	Purple (Pu)	Ignition Ignition switch to coil and electrical instruments
	Purple (Pu)	Instrument feed Distribution panel to electric instruments
	Dark blue	Cabin and instrument lights Fuse or switch to lights
	Light blue	Oil pressure Oil pressure sender to gauge

Gauges	General Uses
20 gauge	Signal wiring for vehicle controllers like sensors, injectors, and sending units.
18 gauge	
16 gauge	Most common sizes running lighting, radios, relays, switches, switch panels, control panels.
14 gauge	
12 gauge	Typically used more for power wires, grounds, relays trailer sockets, motors, higher amperage circuits.
10 gauge	
8 gauge	Component power and grounds, high amp circuits.



Primary wires

Primary wires