Electrical Wire Colour Code Chart

Basis: IEC 60445 conductor identification, IEC 60204 1 machine control wiring, IEC 60079 14 for intrinsically safe circuits, IEC 60584 3 and ANSI MC96.1 for thermocouple cables.

instrumentationblog.in/downloads/engineering-reference-tables/electrical-wire-colour-code-chart/

AC power conductor colours

Standard or region	L1	L2	L3	Neutral	Earth
IEC 60445 (Europe, India new)	Brown	Black	Grey	Blue	Green and yellow
India and UK old practice	Red	Yellow	Blue	Black	Green
USA 120/208 V (common)	Black	Red	Blue	White	Green or bare
USA 277/480 V (common)	Brown	Orange	Yellow	Grey or white	Green or bare
Canada	Red	Black	Blue	White	Green or bare

DC and control panel colours

Circuit	Colour
DC positive (IEC 60445)	Brown
DC negative (IEC 60445)	Grey
DC control circuits (IEC 60204 1)	Dark blue
AC control circuits (IEC 60204 1)	Red
Interlocks from external supply (IEC 60204 1)	Orange
Intrinsically safe circuits (IEC 60079 14)	Light blue
Protective earth	Green and yellow

Thermocouple extension cable colours (positive / negative)

Type	IEC 60584 3	ANSI MC96.1 conductors	ANSI jacket
K	Green / white	Yellow / red	Yellow
J	Black / white	White / red	Black
T	Brown / white	Blue / red	Blue
E	Violet / white	Purple / red	Purple
N	Pink / white	Orange / red	Orange
R, S	Orange / white	Black / red	Green

B	Grey / white	Grey / red	Grey

Notes

- Old installations may use older colours; mark them when modifying circuits.
- Light blue for IS wiring is common practice; follow the site Ex dossier.

Free download from instrumentationblog.in. Check values against the current edition of the standard for design work.