GENERAL TRANSFORMER COLOR CODES IEEE

```
BLA - grounds, grounded elements, returns
BRO - heaters/filaments, off ground
RED - power supply B+
ORA - screen grids (and base 2 of transistors)
YEL - cathodes (and transistor emitters)
GRN - control grids, diode plates (and base 1 of transistors)
BLU - plates (and transistor collectors)
VIO - power supply, minus leads
GRA - AC power line leads
WHI - bias supply, B or C minus, AGC
```

POWER TRANSFORMERS

From Orr's Radio Handbook:

```
Primary leads ------ black
(if tapped)
Common ------ black
Tap ----- black/yellow
End ----- black/red

High voltage secondary ---- red
Center tap ----- red/yellow

Rectifier filament winding - yellow
Center tap ----- yellow/blue

Filament winding No. 1 ---- green
Center tap ----- green/yellow

Filament winding No. 2 ---- brown
Center tap ----- brown/yellow

Filament winding No. 3 ---- slate
Center tap ------ slate/yellow
```

OUTPUT TRANSFORMERS

ARRL Radio Amateur's Handbook:

```
Single-ended transformers:

Plate lead (pri.) ------ blue (or brown)

B+ (power supply) lead ----- red

speaker (typ. +) (sec.) ----- green (or yellow)

speaker return (sec.) ----- black

Push-pull transformers:

Plate lead (pri.) ------ blue (start)

B+ (power supply) lead ----- red (center tap)

Plate lead (pri.) ------ brown (finish)

speaker (typ. +) (sec.) ----- green (or yellow)

speaker return (sec.) ------ black
```

standard scheme for interstage coupling transformer wire colors?

From the ARRL Radio Amateur's Handbook:

```
Plate finish lead (pri.) ----- blue

B+ (power supply) lead ----- red (whether center tap or not)

Plate start lead (pri.) ----- brown

Grid finish (sec.) ------ green

speaker return (sec.) ------ black (whether center tap or not)

Grid start (sec.) ------ yellow
```

Normally *finish* refers to lead connected to tube (or semiconductor) element. Normally *start* refers to bias source i.e. b+, -bias or gnd.

Remember standards are standards only when manufacturers comply.