SER-6500II Cable and Wiring

1. **IRC Cable.**
    a) IRC cable has to be CAT5 twisted pair cable.
    b) IRC cable connectors are RJ45.
    c) Wiring must be following the colour code as per the document attached.
    d) If the network has more then 2 ECR's, you can only use the cable for ECR to Hub. If the network only has 2 ECR's, you can use the ECR to ECR without Hub wiring diagram.
    e) Don't forget to loop the cable around the ferrite core (supplied with the register) close to the register.

2. **REG to PC Cable.**
    a) The data cable that links from REG system to PC must be shielded.
    b) The cable connector is DB9 male on REG side, DB9 female or DB25 female on PC side.
    c) The cable shield should be soldered to the DB connector's metal frame on both sides.
    d) PC should link to REG#1. It is best to use Serial 1 or Serial 2 on the register. Do not use Serial 3 & 4 on the expansion board!
    e) Don't forget to put the Ferrite core (supplied with the register) around the cable on the Register side.

3. **REG to Device Cable**
    a) The data cable that links from REG system to Device (eg. Scanner, Scale, Printer…) must be shielded.
    b) The cable connector is DB9 male on REG side.
    c) The cable shield should be soldered to the DB connector's metal frame on REG side. If the Device side is DB connector, the cable shield should be soldered on the DB connector's metal frame in the Device side as well.
    d) Don't forget to put the Ferrite core (supplied with the register) around the cable on the register side.

Cat 5 with RJ45 for SER-6500II and SPS-1000 IRC Network

Note: 1. If the network over 2 ECR, Cable only can use ECR to Hub wiring.
  2. If the network only 2 ECR, Cable can use ECR to ECR wiring without Hub.
  3. The cable must follow the colour code.

ECR to Hub

(Orange/White)	1	←——————→	1	(Orange/White)
(Orange)	2	←——————→	2	(Orange)
(Green/White)	3	←——————→	3	(Green/White)
(Blue)	4	←——————→	4	(Blue)
(Blue/White)	5	←——————→	5	(Blue/White)
(Green)	6	←——————→	6	(Green)
(Brown/White)	7	←——————→	7	(Brown/White)
(Brown)	8	←——————→	8	(Brown)

ECR to ECR

(Orange/White)	1	←——————→	3	(Orange/White)
(Orange)	2	←——————→	6	(Orange)
(Green/White)	3	←——————→	1	(Green/White)
(Blue)	4	←——————→	4	(Blue)
(Blue/White)	5	←——————→	5	(Blue/White)
(Green)	6	←——————→	2	(Green)
(Brown/White)	7	←——————→	7	(Brown/White)
(Brown)	8	←——————→	8	(Brown)