We claim:

1. A modular connector plug, comprising:

a housing formed of insulative material having a longitudinally extending conductor-receiving cavity formed therein opening onto a rear surface of said housing;

a plurality of contact-receiving slots formed in a forward region of said housing, said contact-receiving slots communicating with a forward region of said conductor-receiving cavity; and

a wire guide filter at least partially situated in said conductor-receiving cavity through said opening at said rear surface, said wire guide filter including an impedance containing portion and an internal cable guide portion.

2. A modular connector plug as recited in claim 1 wherein said impedance containing portion comprises a longitudinally extending body having a plurality of longitudinally extending passageways.

3. A modular connector plug as recited in claim 2 wherein said longitudinally extending body of said impedance containing portion has a cross-shaped cross-section defining four of said longitudinally extending passageways.

4. A modular connector plug as recited in claim 2 wherein said longitudinally extending body of said impedance containing portion includes a plurality of longitudinally extending walls defining said plurality of longitudinally extending passageways between them.

5. A modular connector plug as recited in claim 4 wherein at least one of said longitudinally extending walls includes a longitudinally extending edge surface structured and arranged to terminate a shield of a cable to be received in said conductor-receiving cavity.

6. A modular connector plug as recited in claim 5 wherein teeth or serrations are formed on said longitudinally extending edge surface of said at least one wall.

7. A modular connector plug as recited in claim 1 wherein said impedance containing portion comprises a longitudinally extending body including at least one edge surface

structured and arranged to terminate a shield of a cable to be received in said conductor-receiving cavity.

8. A modular connector plug as recited in claim 1 wherein said impedance containing portion is formed of a zinc alloy.

9. A modular connector plug as recited in claim 1 wherein said impedance containing portion is formed of a metalized plastic.

10. A modular connector plug as recited in claim 1 wherein said impedance containing portion is formed of a non-conductive material.

11. A modular connector plug as recited in claim 1 wherein said impedance containing portion is formed of a ferrite material.

12. A modular connector plug as recited in claim 1 wherein said internal cable guide portion comprises a longitudinally extending body defining a plurality of longitudinally extending guide passageways.

13. A modular connector plug as recited in claim 12 wherein said internal cable guide portion is receivable in said conductor-receiving cavity formed in said plug housing.

14. A modular connector plug as recited in claim 13 wherein said plurality of longitudinally extending guide passageways comprises four said guide passageways including upper and lower guide passages situatable contiguous with upper and lower surfaces of said conductor-receiving cavity and a pair of side guide passageways situatable contiguous with respective side surface of said conductor-receiving cavity.

15. A modular connector plug as recited in claim 14 wherein each of said pair of side guide passageways is formed by a wall portion substantially surrounding at least upper, lower and inner sides of said guide passageways.

16. A modular plug connector as recited in claim 15 wherein each of said pair of side guide passageways is formed by a wall portion which substantially surrounds all of the sides of said side guide passageways.

17. A modular plug connector as recited in claim 15 wherein each of said wall portions forming the guide passageways is formed of a conductive material.

18. A modular plug connector as recited in claim 14 wherein each of said pair of side guide passageways is formed by a wall portion, each of which is structured and arranged to provide EMI shielding of said side guide passageways.

19. A modular plug connector as recited in claim 14 wherein each of said upper, lower and pair of side guide passageways are formed by respective longitudinally extending wall portions, each guide passageway wall portion terminating at a forward free surface.

20. A modular plug connector as recited in claim 19 wherein said forward free surface of said wall portions forming said pair of side guide passageways are situated forwardly of said forward free surface of said wall portions forming said upper and lower guide passageways.

21. A modular plug connector as recited in claim 20 wherein a controlled cross-talk space is defined between lengths of said wall portions forming said pair of side guide passageways that project forwardly of said forward free surfaces of said wall portions forming said upper and lower guide passageways.

22. A modular plug connector as recited in claim 1 wherein said impedance containing portion of said wire guide filter comprises a first longitudinally extending body have a plurality of longitudinally extending impedance containing passageways, wherein said internal cable guide portion of said wire guide filter comprises a second longitudinally extending body defining a plurality of guide passageways; wherein said internal cable guide portion is situated forwardly of said impedance containing portions; and wherein at least some of said plurality of longitudinally extending impedance containing passageways are longitudinally aligned with corresponding longitudinally extending guide passageways.

23. A modular connector plug as recited in claim 22 wherein each of said impedance-containing and internal cable guide portions comprise four of said impedance containing and

guide passageways respectively, including aligned upper, lower and pairs of side impedance containing and guide passageways.

24. A modular connector plug as recited in claim 23 wherein said internal cable guide portion is situated within said conductor-receiving passageway, said upper and lower guide passageways situated contiguous with upper and lower surfaces of said conductor-receiving cavity and said side guide passageways situated contiguous with side surfaces of said conductor-receiving passageways.

25. A modular connector plug as recited in claim 22 wherein said impedance-containing portion and said internal cable guide portion are integrally formed with each other.

26. A modular connector plug as recited in claim 22 wherein said impedance-containing portion and said internal cable guide portion are formed separately from each other.

27. A modular connector plug as recited in claim 23 wherein each of said upper, lower and pair of side guide passageways are formed by respective longitudinally extending wall portions, each guide passageway wall portion terminating at a forward free surface.

28. A modular connector plug as recited in claim 27 wherein said forward free surface of said wall portions forming said pair of side guide passages are situated forwardly of said forward free surface of said wall portions forming said upper and lower guide passageways.

29. A modular plug connector as recited in claim 28 wherein a controlled cross-talk space is defined between lengths of said wall portions forming said pair of side guide passageways that project forwardly of said wall portions forming said upper and lower guide passageways.

30. A modular plug connector as recited in claim 23 wherein each of said pair of side guide passageways is formed by a wall portion substantially surrounding at least upper, lower and inner sides of said side guide passageways.

31. A modular plug connector as recited in claim 23 each of said pair of side guide passageways is formed by a wall portion surrounding all the sides of said side guide passageway.

32. A modular plug connector as recited in claim 23 wherein each of said pair of side guide passageways is formed by a wall portion surrounding all the sides of said side guide passageways.

33. A modular plug connector as recited in claim 32 wherein each of said wall portions is formed of conductive material.

34. A modular plug connector as recited in claim 33 wherein each of said pair of side guide passageways is formed by a wall portion, each wall portion being structured and arranged to provide EMI shielding of said side guide passageways.

35. A modular plug connector as recited in claim 23 further including an outer shield member situated on outer surfaces of said modular connector plug housing.

36. A modular plug connector as recited in claim 35 wherein said outer shield member includes portions overlying an outer surface of said housing in opposed relationship to said side guide passageways of said internal cable guide portion situated in said conductor-receiving cavity formed in said housing to provide EMI shielding.

37. A modular plug connector as recited in claim 23 further including strain relief portions formed on said impedance containing portion.

38. A modular plug connector as recited in claim 38 further including an outer shield member situated on an outer surface of said modular connector plug housing.

39. A modular plug connector as recited in claims 38 wherein said outer shield member includes crimping portions extending away from said housing and structured and arrange to be crimped over said impedance containing portion to terminate a cable shield.

We claim:

1. A modular connector plug, comprising:

a housing formed of insulative material having a longitudinally extending conductor-receiving cavity formed therein opening onto a rear surface of said housing;

a plurality of contact-receiving slots formed in a forward region of said housing, said contact-receiving slots communicating with a forward region of said conductor-receiving cavity; and

a wire guide filter at least partially situated in said conductor-receiving cavity through said opening at said rear surface, said wire guide filter including an impedance containing portion and an internal cable guide portion.

2. A modular connector plug as recited in claim 1 wherein said impedance containing portion comprises a longitudinally extending body having a plurality of longitudinally extending passageways.

3. A modular connector plug as recited in claim 2 wherein said longitudinally extending body of said impedance containing portion has a cross-shaped cross-section defining four of said longitudinally extending passageways.

4. A modular connector plug as recited in claim 2 wherein said longitudinally extending body of said impedance containing portion includes a plurality of longitudinally extending walls defining said plurality of longitudinally extending passageways between them.

5. A modular connector plug as recited in claim 4 wherein at least one of said longitudinally extending walls includes a longitudinally extending edge surface structured and arranged to terminate a shield of a cable to be received in said conductor-receiving cavity.

6. A modular connector plug as recited in claim 5 wherein teeth or serrations are formed on said longitudinally extending edge surface of said at least one wall.

7. A modular connector plug as recited in claim 1 wherein said impedance containing portion comprises a longitudinally extending body including at least one edge surface structured and arranged to terminate a shield of a cable to be received in said conductor-receiving cavity.

8. A modular connector plug as recited in claim 1 wherein said impedance containing portion is formed of a zinc alloy.

9. A modular connector plug as recited in claim 1 wherein said impedance containing portion is formed of a metalized plastic.

10. A modular connector plug as recited in claim 1 wherein said impedance containing portion is formed of a non-conductive material.

11. A modular connector plug as recited in claim 1 wherein said impedance containing portion is formed of a ferrite material.

12. A modular connector plug as recited in claim 1 wherein said internal cable guide portion comprises a longitudinally extending body defining a plurality of longitudinally extending guide passageways.

13. A modular connector plug as recited in claim 12 wherein said internal cable guide portion is receivable in said conductor-receiving cavity formed in said plug housing.

14. A modular connector plug as recited in claim 13 wherein said plurality of longitudinally extending guide passageways comprises four said guide passageways including upper and lower guide passages situatable contiguous with upper and lower surfaces of said conductor-receiving cavity and a pair of side guide passageways situatable contiguous with respective side surface of said conductor-receiving cavity.

15. A modular connector plug as recited in claim 14 wherein each of said pair of side guide passageways is formed by a wall portion substantially surrounding at least upper, lower and inner sides of said guide passageways.

16. A modular plug connector as recited in claim 15 wherein each of said pair of side guide passageways is formed by a wall portion which substantially surrounds all of the sides of said side guide passageways.

17. A modular plug connector as recited in claim 15 wherein each of said wall portions forming the guide passageways is formed of a conductive material.

18. A modular plug connector as recited in claim 14 wherein each of said pair of side guide passageways is formed by a wall portion, each of which is structured and arranged to provide EMI shielding of said side guide passageways.

19. A modular plug connector as recited in claim 14 wherein each of said upper, lower and pair of side guide passageways are formed by respective longitudinally extending wall portions, each guide passageway wall portion terminating at a forward free surface.

20. A modular plug connector as recited in claim 19 wherein said forward free surface of said wall portions forming said pair of side guide passageways are situated forwardly of said forward free surface of said wall portions forming said upper and lower guide passageways.

21. A modular plug connector as recited in claim 20 wherein a controlled cross-talk space is defined between lengths of said wall portions forming said pair of side guide passageways that project forwardly of said forward free surfaces of said wall portions forming said upper and lower guide passageways.

22. A modular plug connector as recited in claim 1 wherein said impedance containing portion of said wire guide filter comprises a first longitudinally extending body have a plurality of longitudinally extending impedance containing passageways, wherein said internal cable guide portion of said wire guide filter comprises a second longitudinally extending body defining a plurality of guide passageways; wherein said internal cable guide portion is situated forwardly of said impedance containing portions; and wherein at least some of said plurality of longitudinally extending impedance containing passageways are longitudinally aligned with corresponding longitudinally extending guide passageways.

23. A modular connector plug as recited in claim 22 wherein each of said impedance-containing and internal cable guide portions comprise four of said impedance containing and guide passageways respectively, including aligned upper, lower and pairs of side impedance containing and guide passageways.

24. A modular connector plug as recited in claim 23 wherein said internal cable guide portion is situated within said conductor-receiving passageway, said upper and lower guide passageways situated contiguous with upper and lower surfaces of said conductor-receiving cavity and said side guide passageways situated contiguous with side surfaces of said conductor-receiving passageways.

25. A modular connector plug as recited in claim 22 wherein said impedance-containing portion and said internal cable guide portion are integrally formed with each other.

26. A modular connector plug as recited in claim 22 wherein said impedance-containing portion and said internal cable guide portion are formed separately from each other.

27. A modular connector plug as recited in claim 23 wherein each of said upper, lower and pair of side guide passageways are formed by respective longitudinally extending wall portions, each guide passageway wall portion terminating at a forward free surface.

28. A modular connector plug as recited in claim 27 wherein said forward free surface of said wall portions forming said pair of side guide passages are situated forwardly of said forward free surface of said wall portions forming said upper and lower guide passageways.

29. A modular plug connector as recited in claim 28 wherein a controlled cross-talk space is defined between lengths of said wall portions forming said pair of side guide passageways that project forwardly of said wall portions forming said upper and lower guide passageways.

30. A modular plug connector as recited in claim 23 wherein each of said pair of side guide passageways is formed by a wall portion substantially surrounding at least upper, lower and inner sides of said side guide passageways.

31. A modular plug connector as recited in claim 23 each of said pair of side guide passageways is formed by a wall portion surrounding all the sides of said side guide passageway.

32. A modular plug connector as recited in claim 23 wherein each of said pair of side guide passageways is formed by a wall portion surrounding all the sides of said side guide passageways.

33. A modular plug connector as recited in claim 32 wherein each of said wall portions is formed of conductive material.

34. A modular plug connector as recited in claim 33 wherein each of said pair of side guide passageways is formed by a wall portion, each wall portion being structured and arranged to provide EMI shielding of said side guide passageways.

35. A modular plug connector as recited in claim 23 further including an outer shield member situated on outer surfaces of said modular connector plug housing.

36. A modular plug connector as recited in claim 35 wherein said outer shield member includes portions overlying an outer surface of said housing in opposed relationship to said side guide passageways of said internal cable guide portion situated in said conductor-receiving cavity formed in said housing to provide EMI shielding.

37. A modular plug connector as recited in claim 23 further including strain relief portions formed on said impedance containing portion.

38. A modular plug connector as recited in claim 1 further including an outer shield member situated on an outer surface of said modular connector plug housing.

39. A modular plug connector as recited in claim 38 wherein said outer shield member includes crimping portions extending away from said housing and structured and arrange to be crimped over said impedance containing portion to terminate a cable shield.